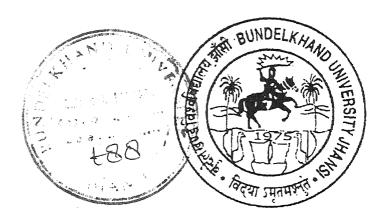
A STUDY OF THE EFFECT OF SOME OF NON-COGNITIVE FACTORS ON THE SCHOLASTIC ACHIEVEMENT OF GIRLS STUDYING IN CLASS-X

A THESIS
SUBMITTED FOR THE DEGREE OF

DOCTOR OF PHILOSOPHY

IN EDUCATION
AT
BUNDELKHAND UNIVERSITY, JHANSI (U.P.)



Supervisor:

DR. D.R.S. PAL

M.A., M.Ed., Ph.D.
Reader & Head,
Teacher Education Deptt.
Pt.J.N.P.G. College, Banda (U.P.)

Investigator:

SMT. MANJU RANI SINGH

M.A., (Eng. & Socio.), M.Ed. Senior Lecturer in English Deptt. Govt. Girls Inter College, Bijnor (U.P.)



FACULTY OF EDUCATION

Pt. Jawahar Lal Nehru Post Graduate College
Banda (U.P.)

DECEMBER-2004

DECLARATION

I, Manju Rani Singh, hereby solemnly declare that the present thesis

titled, "A STUDY OF THE EFFECT OF SOME OF NON-COGNITIVE

FACTORS ON THE SCHOLASTIC ACHIEVEMENT OF GIRLS

STUDYING IN CLASS-X" submitted by me for the Degree of Ph.D. in

Education to the Bundelkhand University, Jhansi is my own work. As per

my knowledge & belief the present work is concerned, it has not been

submitted earlier by anybody. However, if any thing contrary to this

declaration is found later on. I shall be fully responsible for the

consequences thereof.

Dated: 15 December, 2004

(Smt. Manju Rani Singh)

Investigator

Dr. D.R.S. Pal

M.A., M.Ed.,Ph.D. Reader & Head



Faculty of Education Pt. J.N.P.G. College, BANDA

CERTIFICATE

Certified that the Ph.D. thesis titled, "A STUDY OF THE EFFECT OF SOME OF NON-COGNITIVE FACTORS ON THE SCHOLASTIC ACHIEVEMENT OF GIRLS STUDYING IN CLASS-X", being submitted by Smt. Manju Rani Singh for the degree of Doctor of Philosophy in Education, at Bundelkhand University, Jhansi is her own work and was carried out under my guidance and supervision. The Thesis is her original contribution and is fit for submission for the degree of Doctor of Philosophy in Education.

It is further certified that under section (7), the investigator has worked at research centre till allotted time.

Dated: 20 December, 2004

Dr. D.R.S. Pal)
Supervisor

PREFACE AND ACKNOWLEDGEMENTS

"What is the key to scholastic success?" is one of baffling question, that has engaged the attention of educational researchers. One of the earliest answer, put forward by the psychologists was in terms of intelligence which was held mainly responsible for scholastic success. The empirical results on the basis of I.Q. could not prove that success depend mainly on intelligence. Now the researchers have shifted their attention from cognitive factors to non-cognitive factors.

The present study has shown that the individual achievement is influenced by several non-cognitive aspects of one's own personality.

The present study titled "A STUDY OF THE EFFECT OF SOME OF NON-COGNITIVE FACTORS ON THE SCHOLASTIC ACHIEVEMENT OF GIRLS STUDYING IN CLASS-X", discusses the prognostics status of six values and sixteen personality factors in the process and development of scholastic achievement. Since intelligence is an undisputed factor in determining academic achievement, the researcher first partialled out its effect on the achievement and later on attempted to study the relative importance of each of non-cognitive factors included in 16 P.F. Questionnaire test personality developed by Dr. R.B. Cattell alongwith six values and the factors prevailing in the Socio-Economic environment. For analysis of the vast data compiled by the researcher, the statistical device of regression equation was employed. Out of 22 independent variables only nine personality factors and four values predict significantly to the academic achievement. These significant variables are the personality traits of A,B,C,G,H, I, Q₂, Q₃, Q₄ and values, viz. Religious, Educational, Materialistic and Social.

Findings of this study may be concluded in brief that the female subjects who are outgoing, more intelligent, emotionally stable, conscientious venturesome, self sufficient and controlled possess good scholastic achievement, whereas the female subjects who are tender-minded, anxiety ridden and tense have poor scholastic records. Except this the female subjects who are more religious and materialistic generally have poor academic records whereas the subjects who are more educated and social have good academic records. Besides provoking valuable educational implications the present study has broken a new ground for further research in the field of education and guidance.

This student welcomes this opportunity to express her deepest gratitude to Dr. D.R.S. Pal, Reader & Head, Department of Education, Pt. J.N.P.G. College, Banda for his able guidance, valuable criticism and encouragement throughout the progress of this investigation. Without his learned directions this work could never have materialized.

The researcher is highly grateful to *Dr. Yogesh Gupta*, *Reader and Convener*, *Faculty of Education*, *M.J.P. Rohilkhand University*, *Bareilly* for his valuable advice.

The investigator wishes to offer sincere thanks to her learned teachers of the Education Department for their help and encouragement.

The researcher is thankful to all the principals, teachers and students for their help in data collection.

The investigator shall be failing in her duty if she does not express her heartful thanks to her husband *Dr. P. Singh, Senior Reader in Education Department, Vardhman College, Bijnor* who took pains during the course of research.

The whole burden of typing out this thesis fell on Mr. Naeem, Gulshan Computers, Baba Plaza, Bijnor, who inspite of his busy schedule, managed to do the work fairly, efficiently in a remarkably short time, for which this investigator is grateful to him.

Dated: 20 December, 2004

(Smt. Manju Rani Singh)
M.A. (Eng. & Socio.), M.Ed.

Investigator

TABLES OF CONTENTS

	P	age No.
APPROVAL SHEE	CT CT	(i)
PREFACE AND ACKNOWLEDGEMENT		
CONTENTS AND	LIST OF TABLES	(v-x)
CHAPTER-I:	INTRODUCTION	1-31
	The Problem: Its Background and Significance	1
	Statement of the Problem	4
	Objectives of the Study	6
	Rationale and Assumptions of the Study	7
	Hypotheses of the Study	13
	Definition of Important Terms	14
	Delimitations of the Study.	27
	References	28
CHAPTER-II:	REVIEW OF RELATED LITERATURE	32-60
	Intellectual Factors as Predictors	
	of Academic Achievement	33
	Environmental, Biographical and S.E.S. Factors	
	as Predictors of Academic Achievement	35
	Personality Factors as Predictors	
	of Academic Achievement	36
	Values and Scholastic Achievement	45
	High Achievers & Low Achievers	47
	Conclusion	50
	Present Study	51
	References	52
CHAPTER-III:	RESEARCH DESIGN OF THE STUDY	61-94
	Method of the Study	61
	Population and the Sample	62

	,	(vi)
	Tools Used	64
	Variables Involved	78
	Collection of the Data	80
	Organization of the Data	81
	Statistical Techniques Used	82
	Computations Done	94
· ,	References	94
CHAPTER-IV:	ANALYSIS AND INTERPRETATION	95-149
	OF THE DATA	
	PART-A	
	Study of Personality Factors and Scholastic	96
	Achievement	
	PART-B	
	Study of Values and Academic Achievement	127
	PART-C	
	Prediction of Scholastic Achievement	138
	PART-D	
	Comparative Study of High and Low Achievers	143
CHAPTER-V	: FINDINGS AND CONCLUSIONS	150-169
•	Hypotheses Tested	150
	Conclusions	157
	A- Relationship of Personality Factors and	
	Scholastic Achievement.	157
	B- Relationship of Personality Characteristic	S
	and Academic Achievement when	
	Intelligence is Partialled out.	159
	C- Relationship of Personality Characteristic	s
	and Academic Achievement when S.E.S i	S
	Partialled out	160

D- Relationship of Personality Characteristics	
and Academic Achievement when Intelligence	e
and S.E.S. are held constant.	161
E- Relationship of Values and Academic	
Achievement.	161
F- Prediction of Academic Achievement.	162
G- Comparative Study of Personality Factors	
of High Achievers and Low Achievers.	163
H- Comparative Study of Values of High	
Achievers and Low Achievers	164
Educational Implications of the Findings	164
Suggestions for Further Researches	167
	70-181
APPENDICES	182
TOOLS USED	
(i) Sixteen P.F. Questionnaire	
(ii) Personal Value Questionnaire	
(iii) S.E.S. Scale Form A and Form B	
(iv) Group Test of General Mental Ability.	

LIST OF TABLES

S.No.	Table No.	Contents	Page	No.
1.	3.1	Streamwise Distribution of the Sample		63
2.	3.2	Total No. of Scores in Each Factor of 16 P.F.		67
3.	3.3	Dependability Coefficients (16 P.F.)		69
4.	3.4	Stability Coefficients (16 P.F.)		69
5.	3.5	Equivalence Coefficients (16 P.F.)		69
6.	3.6	Direct Concept Validities of the 16 P.F. Scales		70
7.	3.7	Indirect Concept Validities of the Full 16 P.F. Scales.		71
8.	3.8	Validities Estimated from Correlation of the Two Factors Halves.		71
9.	3.9	Reliability Coefficient of P.V.Q.		74
10.	3.10	Norms of Rural People		76
11.	3.11	Norms of Urban People.		77
12.	4.1	Distribution of Scores on Factor A		97
13	4.2	Distribution of Scores on Factor B		98
14	4.3	Distribution of Scores on Factor C		99
15	4.4	Distribution of Scores on Factor E	•	100
16	4.5	Distribution of Scores on Factor F		101
17	4.6	Distribution of Scores on Factor G		102
18	4.7	Distribution of Scores on Factor H		103

S.No.	Table No.	Contents	Page No.
19	4.8	Distribution of Scores on Factor I	104
20	4.9	Distribution of Scores on Factor L	105
21	4.10	Distribution of Scores on Factor M	106
22	4.11	Distribution of Scores on Factor N	107
23	4.12	Distribution of Scores on Factor O	108
24	4.13	Distribution of Scores on Factor Q ₁	109
25	4.14	Distribution of Scores on Factor Q ₂	110
26	4.15	Distribution of Scores on Factor Q ₃	111
27	4.16	Distribution of Scores on Factor Q ₄	112
28	4.17	Distribution of Scores on Scholastic Achievement.	113
29	4.18	Coefficients of Correlation between 16 Personality Factors and Scholastic Achievement.	114
30	4.19	Coefficients of Partialled Correlation betw 16 P.F. and Scholastic Achievement, Intelligence being Partialled out.	een 119
31	4.20	Coefficients of Partialled Correlation between Personality Traits and Academic Achievement, S.E.S. being Partialled out.	122
32	4.21	Coefficients of Correlation between Personality Factors and Academic Achievement, S.E.S. and Intelligence being Partialled out.	125
33.	4.22	Frequency Distribution of Scores on Personal Value(P)	127

S.No.	Table No.	Contents	Page No.
34	4.23	Frequency Distribution of Scores on Religious Value (R).	128
35	4.24	Frequency Distribution of Scores on Educational Value (E ₁)	129
36	4.25	Frequency Distribution of Scores on Materialistic Value (M ₁)	130
37	4.26	Frequency Distribution of Scores on Social Value (S)	131
38	4.27	Frequency Distribution of Scores on Humanistic Value (H ₁)	132
39	4.28	Coefficients of Correlation between Values and Academic Achievement.	133
40	4.29	Coefficients of Partial Correlation between Values and Academic Achievement Intelligence being Partialled out.	134
41	4.30	Coefficients of Partial Correlation between Values and Scholastic Achievement, S.E.S. being Partialled out.	136
42	4.31	Coefficients of Partial Correlation between Values and Academic Achievement, Intelligence and S.E.S. being Partialled ou	
43.	4.32	Coefficients of Partial Regression, Beta Coefficients and Coefficients of Multiple Correlation with Twenty-Two	
		Independent Variables.	139
44	4.33	Comparison with Mean Scores on Personality Factors Between High and Low Achievers of Female Students.	145
		Low rolliovois of rolliate Studellis.	140
45	4.34	Gain in Scores on Values by the High Achievers and Low Achievers.	147

CHAPTER-I

Introduction

The Problem: Its Back Ground And Significance:

The perplexing phenomena of under scholastic achievement and failure among students of various stages of education have been, and continued to be a cause of grave concern to the educationists, teachers, guidance counsellors, educational planners and researchers in the whole world. In developing countries like India where our old values and ideals are disappearing and new values are emerging, our students are finding very hard to exist and adjust themselves in the materialistic era. The problem of failures at high school level is a burning problem and a large number of students have committed suicides when they are not successful at this level. The personality traits are perhaps the important factors for their academic success. Thus, the problem of predicting high school success has drawn more attention of psychologist and educational researchers than any other problem in the field of education.

One reason for this is the tremendous growth in the students population on the secondary level. The increase has out-stripped the expansion of facilities, consequently heightening the competition for admission, at least in the prestigious urban schools, colleges and universities.

The other reason is the growth of programmes designed to identify and support the training of students without standing talents. Such programmes (for example that of the national merit scholarship) reflect the exigencies of the post-sputnik cold war competition and the national need to find persons able to be absorbed and use of high level scientific and technical training.

Hence, the reason for studying this subject is that the value of scholastic achievement score's went up increasing. Parents began to be still more conscious about higher scholastic scores in examinations as they found that their wards were left without an aspired job or vocational stream even after spending sixteen or more years in schooling and consuming the meager economic resources of an average Indian family. Finally, parents tended to fix some standard of scholastic achievement for their children consciously and unconsciously without due consideration of their capacities and essential facilities.

The other reason for the study of this topic that scholastic achievement is an index of the amount learned during the course. Ronald P. Carner has presented a mathematical model in which he has shown that it is possible for the results of final examination to be the best indicator of amount learned. Thus, on the basis of the mathematical model of Ronald, any teacher or employer can very easily understand about the knowledge of the subject matter and amount of knowledge learned during his course. It is also evident from this finding

that better grades will facilitate promotion to the higher class and also getting employment.

The third reason for the present study is the matter on which the public at large is most deeply concerned. There is a large incidence of failure in the external examination at the end of the school stage. Our country is investing huge funds of public money on the education. But a significant portion of it, is wasted on those who fail to benefit from their education. The large percentage of failure is not small to be ignored.

The failure of such a large number of students particularly when they have been admitted on the basis of upper primary school examination results, year after year by means of annual and other school examinations, thus the real problem is focused on admitting the right kind of students in different streams at the higher secondary stage. According to Dr. Bhatnagar "There are many students who pass the examination, yet they fail to achieve as much as they can in terms of their abilities. These students are known as under achievers. They are the persons who are quite capable, but fail to achieve in conformity with their capacities for several reasons, certain non-intellectual factors may interfere with their achievement".

This gigantic problem has created interest not only among the educationists alone, but it has aroused the interest of conscious parents. Many failing children do have sufficient intelligence but are unable to progress. Wan³ has drawn attention to the problem of failures and wastage. He reported that during the last decades attention has been focused not only on individual failures but on the failures of educational practice and system to inspire pupils. Only, one out of eight adolescent children in the age group 14-17 years reached secondary school. Though, high school population is, therefore, highly selective, yet 50 or more failure from the selective population is irksome. This does not indicate the wastage on money alone, but also of national manpower. India is a developing country and she can not ill-afford to waste human talent and the countries limited resources. It is the moral obligation of the country to provide help in enabling the adolescents to develop their capacities of which they are capable.

A thorough answer to these problem posed above has led the educationists and psychologists to the exploration of the factors associated with scholastic achievement of school children.

Statement of the Problem:

Every research on this subject focused primarily on intellectual and other factors of mental abilities as predictors. Recently, there have been an important shift in emphasis and in the conceptualization of the problem due to gradual

recognition that some students do better and some perform worse than predicted on the basis of ability tests. The search for cause of these variations in scholastic performance led first to the consideration of non-intellectual factors mainly personality characteristics, scholastic motivation, home environment, self concept, emotional adjustment, values, interests, attitudes, test anxiety and organizational climate etc. A large number of studies have been conducted which have shown that non-cognitive factors also play a significant role in the accomplishment of scholastic attainment. An important need in the prediction of scholastic attainment, therefore, is for systematic research into all these above non-cognitive factors and affective domains of human behaviour which are conducive to scholastic achievement. Though, this issue is a stupendous task requiring intensive and extensive study by a team of research workers working steadily over a number of years, yet the investigator has taken an humble venture to find out the relationship of the factors pertaining to pupil's personality and values with their scholastic achievement keeping in view the, shortage of time and money. Therefore, the problem undertaken for the present investigation is entitled as: "A STUDY OF THE EFFECT OF SOME OF NON-COGNITIVE FACTORS ON THE SCHOLASTIC ACHIEVEMENT OF GIRLS STUDYING IN CLASS X".

To be specific, the present study is intended to answer the following questions:

THE PROBLEM: ITS BACKGROUND AND SIGNIFICANCE

- 1. Are personality factors and values are associated with scholastic achievement?
- 2. Which personality factors are associated with scholastic achievement and in what manner?
- 3. What are the possible combinations of personality and values, on which prediction of academic achievement can be made at the highest level?

Objectives of the Study:

The major objectives of the present study were:

- 1. To find out the extent to which personality traits are related to academic achievement.
- 2. To find out how far values effects scholastic achievement.
- 3. To find out how far these variables(each personality characteristic and values) contribute to the prediction of scholastic achievement.
- 4. To compare the personality factors and values of high achievers and low achievers.

Subsidiary Aims:

In order to accomplish the above mentioned objectives, some concomitant objectives had also been realized:

- 1. The investigator found the reliability and validity of all the tests used for the purpose of present research study.
- 2. In order to get the true picture of the correlation between personality traits, values and scholastic attainment, age, sex, S.E.S. and intelligence factors had been controlled.

Rationale and Assumptions of the Study:

The present study is titled as: "A STUDY OF THE EFFECT OF SOME OF NON-COGNITIVE FACTORS ON THE SCHOLASTIC ACHIEVEMENT OF GIRLS STUDYING IN CLASS X". Obviously, it has been assumed that there must be significant relationship among these variables. Personality traits and values are surely a forceful determinant of human activities and achievement. The amount and quality of achievement in the different walks of life, are certainly the output of distinct organization of different traits of personality. Our unique composite of temperament traits, needs, interests, values, problems adjustment, attitudes, aptitudes, tests and talents decide our achievement not only in the academic field but in every field. Here the investigator is concerned only with the academic field.

Several efforts have been made from time to time to satisfy the query of finding out the non-cognitive factors that can be considered responsible for academic success and failure. Ultimately these factors which have deep impact on our academic attainment, are categorised under two major divisions:

- (a) Personality factors.
- (b) Non-Personality factors⁴

Non personality factors include age, teaching and learning method, study habits, biographical data, socio economic status, motivation and class room climate personal values and home environment etc., whereas in personality factors, we include temperament traits, interests, attitudes problems, adjustment, needs etc. These personality factors, influence our achievement far more deeply than non-personality factors.

It is common notion that some students, who fail in the school examination, obtain better scores on test of intelligence and some of the good achievers in earlier classes unexpectedly fail and lag behind the standards of achievement in next higher classes. It shows that the "primary operent" factor in academic achievement is not only intelligence but something more than this. For all this, the pupil's personality structure and values may be considered responsible without much hesitation. The personality factors and values have an important bearing on academic achievement.

These are mainly the personality traits and values that pull down the students of higher ability to a lower level and push up students with low ability to a higher level. So far as change in academic-achievement is concerned, it is due to the change in human behaviour, change in attitude, interest, mood, values and so on.

Thus, only after thoroughly understanding the individual's value and his/her complex personality traits, we are able to know the reasons of his under-achievement, which can be carelessness in utilizing the inner resources.

A study of causes of failures in the high school examination was made by the Department of Education of Allahabad University⁶. The study found that certain aspects of personality and scholastic achievement have definite relationship. The hypothesis of the study was "Causes of failure must be in some sort of weakness of, or lack of, adjustment on the part of the examinee".

A number of recent studies have drawn attention to personality and values correlates of school attainment. Cattell⁷ (1966) has reported low but statistically significant correlations between pupil's achievement and scores on various personality traits. The association of personality characteristics with academic achievement after testing was also explained by Brishton⁸ (1957) in the following words:

"Intelligence is a significant determiner of scholastic achievement, but many other personal, social, psychological and emotional factors affect the nature and extent of school achievement". The study of Barrett has shown the importance of personality and values in academic achievement:

"Only by careful and thorough study of each individual's personality we can find the reasons for under achievement. If the individual is under-achieving it is because he can not adequately utilize his inner sources".

Neugeboren⁹ (1958) and Paul Centi¹⁰ (1962) both studied that patterns of academic performance are related to certain aspects of personality structure. Cattell and Butcher¹¹ (1968), in one of study concluded that variance in academic achievement is equally divided among ability, motivation, personality factors, each of which accounts for about 25%.

James ¹² (1952) while quoting a study, concluded that low achievers had less will to adjust, had developed less leadership ability, were more aggressive, liked school less and had lower educational aspiration than their high achieving peers. Burgess ¹³ (1956) found no differences in the anxiety index for the over and under achieving groups. Holland ¹⁴ (1960) noted that only high achieving girls were characterized by lack of tension and that the result was not valid for boys. According to Endler ¹⁵ (1960) anxiety had no direct and significant

relation with academic achievement but where the subjects were trichotomized into high, middle and low achieving groups, anxiety was found to increase the correlation between the predicted and actual grade average for high achieving groups and to decrease the correlation for the middle and low groups. In Spielberger's 16 study (1960) anxiety was found to facilitate the academic achievement of the higher ability groups only. Maling 17 (1964 noted that anxiety was responsible for greater variability in academic performance, and that for high achieving group only.

Neuroticism, which is another personality variable studied in connection with achievement discrepancy, shows a similarly conflicting results. For Investigators like Eysenck¹⁸ (1957), Lynn¹⁹, Lynn& Gordan²⁰ (1961), good educational attainment was facilitated by neuroticism. But according to Savage²¹ (1962) academic achievement and neuroticism were negatively related. Similar study was conducted in India by Mohanta²² (1965) suggested that high achievers were, in general, less neurotic.

Personality traits and values do not give a consistent pattern in their association with the achievements of students. Investigators: V. Kolwadkar²³ (1980); N. Haq ²⁴(1988); S.K. Dixit²⁵ (1989); G.S. Manon²⁶ (1990); B.D. Sati²⁷ (1991); Nisha²⁸ (1991); D.K. Diwan²⁹ (1991); S.K. Chand³⁰ (1992); N.M. Chhangan Lal³¹ (1992); S. Gautam³² (1992); Namrata³³

(1992); K. Sen Barat³⁴ (1992); draw different pictures from the data they collected.

It is evident from the above mentioned studies that personality traits and values have got some sort of relationship with academic attainment. However, the result of most of studies are almost contradictory. Hence, more replication of studies in a comprehensive manner, in which the application of more sophisticated statistical technique for data analysis may be made in order to make interpretation more valid, are needed. There is a lack of such type of comprehensive studies in our country which may made interpretation more valid and meaningful so that some general conclusions about the dynamics of academic performance may be drawn. This is be the first comprehensive study in which the effect of personality traits alongwith personal values on academic attainment had been studied with the application of more sophisticated statistical technique for data analysis (partial 'r', multiple 'R', coefficient of Alienation, coefficient of Forecasting Efficiency), so that more valid interpretation had been made. There is a paucity of such type of studies so far to the best of researcher's knowledge which had been conducted in India till today.

These facts inspired the investigator to analyse the relationship of all sixteen personality traits and six values with the academic achievement of girls studying in class X systematically in a logical manner. Here, it would not be out

of the way to mention that almost all the studies which were carried out in our country regarding in this context, were on males.

Hypotheses:

Under this study, the following hypotheses in null form had been formulated:

1. Personality and Academic Achievement:

- (a) There is no significant correlation between personality characteristics and academic achievement.
- (b) The relationship of personality characteristics with academic achievement does not exist significantly when intelligence is held constant.
- (c) There is no significant relationship between personality characteristics and academic achievement when S.E.S. is held constant.
- (d) The significant relationship dos not exist between personality characteristics and academic achievement when intelligence and S.E.S. are held constant at a time.

2. Academic Achievement and Values:

(a) There is no significant relationship between values and academic achievement.

- (b) No significant relationship exists between values and academic achievement when intelligence is held constant.
- (c) The significant relationship does not exist between values and academic achievement when S.E.S. is held constant.
- (d) There is no significant correlation between values and academic achievement when intelligence and S.E.S. are held constant at a time.
- 3. Each personality characteristics and values when combined together do not predict significantly to the scholastic achievement.
- 4. The personality characteristics of high and low achievers do not differ significantly.
- 5. The high and low achievers do not differ significantly in their values.

Definition of Important Terms:

Many technical terms have been used in the present study and it is necessary to define them so that further discussion may be understood in the proper context.

Personality Factors:

Generally authors have defined personality in terms of factors or in terms of types. Stagner³⁵ (1961) uses the term factor to refer to a consistent feature of personality which has some emotional or ideational content. Personality variables are defined in terms of sixteen personality factors as measured by Sixteen P.F. Questionnaire of Dr. R.B. Cattell adopted in Hindi for adults by Dr. S.D. Kapoor. The brief description of these sixteen personality factors is as follows:

1. Factors 'A': Reserved - Outgoing:

The person, who scores low on Factor A, tends to be stiff, cool, skeptical, and aloof. He likes things rather than people, working alone, and avoiding compromises of viewpoints. He is likely to be precise and 'rigid' in his way of doing thing and in personal standards, and in many occupations these are desirable factors. He may tend, at times, to be critical, obstructive, or hard.

The person, who scores high on factor A, tends to be good natured, easy-going, emotionally expressive, ready to cooperate, attentive to people, soft-hearted, kindly, adaptable. He likes occupations dealing with people and socially impressive situations. He readily forms active groups. He is generous in personal relations, less afraid of criticism, better able to remember names of people.

2. Factor 'B': Less Intelligent - More Intelligent:

The person, scoring low on Factor B, tends to be slow to learn and grasp, dull, given to concrete and literal interpretation. His dullness may be simply a reflection of low intelligence, or it may represent poor functioning due to psychopathology.

The person, who scores high on Factor B, tends to be quick to grasp ideas, a fast learner, intelligent. There is some correlation with level of culture, and some with alertness. High scores contraindicate deterioration of mental functions in pathological conditions.

3. Factor 'C': Affected By Feelings - Emotionally Stable:

The person, who scores low on Factor C, tends to be low in frustration tolerance for unsatisfactory conditions, changeable and plastic evading necessarily reality demands, neurotically fatigue, fretful, easily emotional and annoyed, active in dissatisfaction, having neurotic symptoms. Low Factor C score is common to almost all forms of neurotic and some psychotic disorders.

The person, who scores high on Factor C, tends to be emotionally mature, stable, realistic about life, unruffled, possessing ego strength, better able to maintain solid group morale. Sometimes he may be a person making a resigned adjustment to unsolved emotional problems.

4. Factor 'E': Humble - Assertive:

The person, who scores low on Factor E, tends to give way to others, to be docile, and to conform. He is often dependent, confessing, anxious for obsessional correctness. This passivity is part of many neurotic syndromes.

The person, who scores high on Factor E, is assertive, self-assured, and independent-minded. he tends to be austere, a law to himself, hostile or extra punitive, authoritarian, and disregards authority.

5. Factor 'F' :Sober- Happy-go-lucky :

The person, who scores low on Factor F, tends to be restrained, reticent, introspective. He is sometimes dour, pessimistic, unduly deliberate, and considered smug and primly correct by observers. He tends to be a sober, dependable person.

The person, who scores, high on this factor, tends to be cheerful, active, talkative, frank, expressive, effervescent, carefree. He is frequently chosen as an elected leader. He may be impulsive and mercurial.

6. Factor 'G': Expedient - Conscientious:

The person, who scores low on Factor G, tends to be unsteady in purpose. He is often casual and lacking in effort for group undertakings and cultural demands. His freedom from group influence may lead to anti-social acts, but at times makes

him more effective, while his refusal to be bound by rules causes him to have less somatic upset from stress.

The person, who scores high on Factor G, tends to be exacting in character, dominated by sense of duty, persevering, responsible, planful, "fills the unforgiving minute". He is usually conscientious and moralistic, and he prefers hard working people to witty companions. The inner "Categorical imperative" of this essential superego should be distinguished from the superficially similar "social ideal self" of Q_3 .

7. Factor 'H': Shy - Venturesome:

The person, who scores low on this factor, tends to be shy, withdrawing, cautious, retiring, a 'wall-flower". He usually has inferiority feelings. He tends to be slow and impeded in speech and in expressing himself, dislikes occupations with personal contacts, prefers one or two close friends to large groups, and is not given to keeping in contact with all that is going on around him.

The person, who scores high on Factor H, is sociable, bold, ready to try new things, spontaneous, and abundant in emotional response. His "thick-skinnedness" enables him to face wear and tear in dealing with people and grueling emotional situations, without fatigue. However, he can be careless of detail, ignore danger signals, and consume much time talking. He tends to be "pushy" and actively interested in the opposite sex.

8. Factor 'I': Tough-minded-Tender-minded:

The person, who scores low on Factor I, tends to be practical, realistic, masculine, independent, responsible, but skeptical of the subjective, cultural elaborations. He is sometimes unmoved, hard, cynical, smug. He tends to keep a group operating on a practical and realistic "no-nonsense" basis.

The person, who scores high on Factor I, tends to be tender-minded, day- dreaming, artistic, fastidious, feminine. He is sometimes demanding of attention and help, impatient, dependent, impractical. He dislikes crude people and rough occupations. He tends to slow up group performance and to upset group morale by unrealistic fussiness.

9. Factor 'L': Trusting - Suspicious:

The person, who scores low on Factor L, tends to be free of jealous tendencies, adaptable, cheerful, uncompetitive, concerned about other people, a good team worker.

The person, who scores high on Factor L, tends to be mistrusting and doubtful. He is often involved in his own ego, is self-opinionated, and interested in internal, mental life. He is usually deliberate in his actions, unconcerned about other people, a poor team member.

10. Factor 'M': Practical - Imaginative:

The person, who scores low on Factor M, tends to be anxious to do the right things, attentive to practical matters, and subject to the dictation of what is obviously possible. He

is concerned over detail, able to keep his head in emergencies, but sometimes unimaginative.

The person, who scores high on Factor M, tends to be unconventional, unconcerned over everyday matters, Bohemian, self-motivated, imaginatively creative, concerned with "essentials", and oblivious of particular people and physical realities. His inner-directed interests sometimes lead to unrealistic situations accompanied by expressive outbursts. His individuality tends to cause him to be rejected in group activities.

11. Factor 'N': Forthright - Shrewd:

The person, who scores low on Factor N, tends to be unsophisticated, sentimental and simple. He is sometimes crude and awkward, but easily pleased and content with what comes, and is natural and spontaneous.

The person, who scores high on Factor N, tends to be polished, experienced, worldly, shrewd. He is often hardheaded and analytical. He has an intellectual, unsentimental approach to situations, an approach akin to cynicism.

12. Factor 'O': Placid - Apprehensive:

The person, who scores low on Factor O, tends to be placid, with unshakable nerve. He has a mature, un anxious confidence in himself and his capacity to deal with things. He

is resilient and secure, but to the point of being insensitive of when a group is not going alongwith him, so that he may evoke antipathies and distrust.

The person, who scores high on Factor O, tends to be depressed, moody, a worrier, full of foreboding, and brooding. He has a child like tendency to anxiety in difficulties. He does not feel accepted in groups or free to participate. High Factor O score is very common in clinical groups of all types.

13. Factor 'Q₁': Conservative - Experimenting:

The person, who scores low on Factor Q_1 , is confident in what he has been taught to believe, and accepts the "tried and true", despite in consistencies, when something else might be better. He is cautious and compromising in regard to new ideas. Thus, he tends to oppose and postpone change, is inclined to go along with tradition, is more conservative in religion and politics, and tends not to be interested in analytical "intellectual" thought.

The person, who scores high on Factor Q_1 , tends to be interested in intellectual matters and has doubts on fundamental issues. He is skeptical and inquiring regarding ideas, either old or new. He tends to be more well informed, less inclined to moralize, more inclined to experiment in life generally, and more tolerant of inconvenience and change.

14. Factor 'Q2': Group-Dependent-Self-Sufficient:

The person, who scores low on Factor Q_2 , prefers to work and make decisions with other people, likes and depends on social approval and admiration. He tends to go along with the group and may be lacking in individual resolution. He is not necessarily gregarious by choice; rather he needs group support.

The person, who scores high on Factor Q_2 , is temperamentally independent, accustomed to going his own way making decisions and taking action on his own. He discounts public opinion, but is not necessarily dominant in his relations with others. He does not dislike people but simply does not need their agreement or support.

15. Factor 'Q3': Undisciplined Self-Conflict-Controlled:

The person, who scores low on Factor Q_3 , will not be bothered with will control and regard for social demands. He is not overly considerate, careful, or pains-taking. He may feel maladjusted, and many maladjustments show Q_3 .

The person, who scores high on Factor Q_3 , tends to have strong control of his emotions and general behaviour, is inclined to be socially aware and careful, and evidences what is commonly termed "self-respect" and regard for social reputation. He sometimes tends, however, to be obstinate. Effective leaders, and some paranoids, are high on Q_3 .

16. Factor 'Q₄': Relaxed - Tense:

The person, who scores low on Factor Q_4 , tends to be sedate, relaxed, composed, and satisfied. In some situations, his over satisfaction can lead to laziness and low performance, in the sense that low motivation produces little trial and error. Conversely, high tension level may disrupt school and work performance.

The person, who scores high on Factor Q_4 , tends to be tense, excitable, restless, fretful, impatient. He is often fatigued, but unable to remain inactive. In groups, he takes a poor view of the degree of unity, orderliness, and leadership. His frustration represents and excess of stimulated, but undischarged, drive.

Values:

In the present study, students values are defined as "what the students think important in life". Six important values have been selected in order to relate them to the students' academic achievement. To measure these six values-personal, religious, educational, materialistic, social and humanistic-a scale of values has been used by the researcher. These values are described as follows:

1. The Personal Values: This refers to the dominant feelings of hedonism, self-interest, self-development, recreation and show off.

- 2. The Religious Values: This refers to the interest in religious books, religious activities and ritual work.

 Interest in moral and spiritual development, interest in religious people etc. are also indicative of the religious values.
- 3. The Educational Values: The educational values refer primarily to the interest in education. Most of the activities of a person having these values are confined to the narrow field of education. He craves for higher learning and wants to be a good, able and laborious student.
- 4. The Materialistic Values: The student having more dominant materialistic values is characteristically interested in 'what is useful in life'. He has a good desire for money and most of his activities are dominated by this desire. He is mainly interested in business, prosperity and accumulating wealth. He wants education to be of practical use.
- 5. The Social Values: This refers to love for the people consideration for other persons, to be unselfish, sympathetic and kind to others. A person having dominant social values consider relationship more important. Such a person is interested in social work and social reforms, helping the poor. He also tries to cooperate with others.

6. The Humanistic Values: This refers to love for humanity, helping the needy, to be kind hearted, sympathetic, sacrificing and others oriented.

Scholastic Achievement:

The aggregate marks obtained in high school examination of U.P. Board Allahabad by the female students has been accepted as the criterion of students' scholastic achievement.

High Achievers:

The term high scholastic achievers for the purpose of present study refers to the subjects earning a total score in high school examination which above mean+1S.D. for the score distribution for scholastic achievement. The subject who have scored more than 65% marks have been named as high achievers.

Low Achievers:

The term low achievers refers to the subjects earning a total score in high school examination which is below mean - 1S.D.for the score distribution of scholastic achievement. Subjects getting less than 45% of the marks, have been named as low achievers.

Socio-Economic Status:

Good in his dictionary Education describes the meaning of Socio-economic status as "The level indicative of both social and economic achievement of an individual or group". Kuppu Swami has regarded occupation, income and education as the factors in socio-economic status.

Under the present Indian conditions the S.E.S. scale Form A Urban and Form B Rural constructed and standardized by Dr. S.P. Kulshreshtha have been used by the investigator. It seeks the information regarding the following component variables:

- 1. Parental and Sibling's Occupation.
- 2. Parental and Sibling's General Education.
- 3. Parental and Sibling's Technical Education.
- 4. Economic Indicators.
- 5. Cultural Indicators.
- 6. Psychological Indicators.

The comparisons of all these six areas constitute the concept of S.E.S .in present study.

Intelligence:

S.S. Jalota Group Test of General Mental Ability 1972 (J.G.T.M.A.) for 11 to 16 years students in order to measure the intelligence had been used by the researcher for the present study.

Delimitations of the Study:

The present study is limited to a random sample of 1200 female students studying in class X of girls Intermediate colleges of Chitrakoot Dham Mandal. Hence, there results obtained and the inferences drawn would be relevant to the female students of Chitrakoot Dham Mandal only.

The study is limited only to the measurement of sixteen primary personality factors(First order factors), alongwith six values which have been described earlier in this chapter. Eight second order factors which can also be identified with the help of this R.B. Cattell test, have not been measured in this study.

This investigation is confined to the female students only. Boys are not the subjects of the study. This was done to control the sex variable in personality otherwise the combined results would not have been valid.

The present study is also limited in research design. This is a survey type study which builds a body that is usually only of logical significance and may contribute to the solution of immediate problems. It is, therefore, not likely to produce direct evidence of any casual relationship.

This investigator has confined the present study in design also. Several other designs in which more than second order partial correlation, factor analysis and an experimental design could have been used. But due to the limited resources and

paucity of time and money only, the normative survey method and a few statistics have been used.

In the present study total marks of all the subject in high school examination of U.P. Board, Allahabad has been considered as the criterion of students' scholastic achievement.

The sample is limited only to those schools where the medium of instruction was Hindi.

REFERENCES:

- 1. Report of Education Commission Delhi: Ministry of Education, Govt. of India P-246, 1964-1966.
- 2. R.P. Bhatnagar:, "A Study of Some of the Personality Factors as Predictors of Scholastic Achievement", *C.I.E. Studies in Education & Psychology*, Publication, No. 63, 1968.
- 3. W.D. Wan, E.J. Schonen; W.C. Olsen: "Failure in School", Hamburg, U.N.E.S.C.O., in Institute of Education, 1962.
- 4. R.P. Bhatnagar: "Personality and Other Factors in Scholastic Performance", *Review and Research, Educational Trends*, Vol. I No. 4, July 1969, P-9.
- 5. L.F. Cain, J.U. Michael is and A.C. Aurich: "Prognosis" in *Encyclopedia of Educational Research* by Munroe W.S. (eds) Revised Edition, Macmillan, New York, 1952, P-878.
- 6. Allahabad University Department of Education: "Report on Causes of Failures in High School Examination", Delhi: *Ministry of Education*, Govt. of India Project, Jan., 1961.

- 7. R.B. Cattell, A.P. Sealey and A.B. Sweeney: "What can Personality and Motivation Source Trait Measurements Add to the Practice of School Achievement", *British Journal of Education and Psychology*, Vol. 36, 1966, PP-280-295.
- 8. Rodger Brishton: "A Study of Some Factors Related to Achievement of Intellectual Superior VIII Grade Children", *Journal of Educational Research*, No. 1957, Vol. 51, No. 3,PP-203-208.
- 9. Bernard, Neugeboren: "Clinical Study of Under-achievers" in *Psychological Problems of College Men*, by Brugant M. Wedge (Ed.) Yale University Press, New Haven, P-63, 1958.
- 10. Paul Centi: "Personality Factors Related to College Success", *Journal of Educational Research*, Vol. 55, No. 4, December-January 1962, PP-187-88.
- 11. R.B. Cattell and H.J. Butcher: 'The Prediction of Achievement and Creativity', New York Books-Merril, 1968.
- 12. James V. Pierce: "Achievers and Under Achievers" A Comparison, *The Year Book of Education, the Gifted Child,1952*, the University of London, Institute of Education and Teachers College Columbia University, New York,P-143
- 13. E. Burgess: "Personality, Factors of Over and Under Achievers in Engineering", *Journal of Educational Psychology*, Vol. 47 No. 2, February, 1956, PP-89-99.
- 14. J.L. Holland:, "The Prediction of College Grades from Personality and Aptitude Variables", *Journal of Educational Psychology*, Vol. 51, No. 5 October, 1960, PP-245-254.
- 15. D.E. Endler: "The Prediction of Academic Performance", John Wiley & Sons, Inc., New York, 1960, P-56.
- 16. C.D. Spielberger: "The Effect of Manifest Anxiety on the Academic Achievement of College Students", *Mental Hygiene*, Vol. 46, 1962, pp-420-426.

- 17. L.R. Maling: "Anxiety and Academic Prediction" *Journal of Counseling Psychology*, Vol. 11, 1964, PP-71-75.
- 18. H.J. Eysenck: "The Dynamics of Anxiety and Hysteria" Ranteledge and Vegon Paul, London, 1957.
- 19. R. Lynn: "Two Personality Characteristics Related to Academic Achievement", *British Journal of Educational Psychology*, Vol. 29, No. 3, November, 1959,PP-213-216.
- 20. R. Lynn and I.E. Gorden: "The Relation of Neuroticism and Extroversion to Intelligence and Educational Attainment", *British Journal of Educational Psychology*, Vol. 31 No. 2, June 1961, PP-194-203.
- 21. R.D. Savage: "Personality Factors and Academic Performance", British Journal of Education Psychology, Vol.32, No. 3 1962, PP-251-253.
- 22. D. Hohanta: "Assessment of Personality, A Study of Bernreuter Personality Inventory", *Bulletin, Council of Social and Psychological Research*, Calcutta, No. 4, 1965, PP-17-23
- 23. V. Kolwadkar: "Study of Gifted Children in Relation to Their Personality Variables, Level of Adjustment and Scholastic Achievement" *Ph.D.*, *Home Sc.*, Nagpur University, 1980.
- 24. N. Haq: "A Study of Certain Personality Correlates of Over-Under Achievement in Different School Subjects", *Ph.D., Education*, A.M.U., 1988.
- 25. S.K. Dixit: "The Effect of Personality Factors and Self-concept on Educational Achievement", *Ph.D. Education*, Agra University, 1989.
- 26. G.S. Menon: "A Study of the Relationship among Certain Environmental and School Performance of Standard I Students", *Ph.D.*, *Education*, M.S. University of Baroda, 1990.
- 27. B.D. Sati: "A Comparative Study of Needs, Values, Aspirations and Adjustment in Relation to Academic Achievements of Scheduled Castes and Other Students of Secondary Schools of Kumaun", *Ph.D., Education*, Kumaun University, 1991. [30]

- 28. Nisha: "A Study of Adolescent Alienation in Relation to Personality, Values, Adjustment, Self-esteem, Locus of Control and Academic Achievement", *Ph.D. Psy.*, Punjab University, 1991.
- 29. D.K. Diwan: "A Study of the Predictors of Academic Achievement of Student Teachers in Terms of Aptitude, Attitude, Participation and Human Values", *Ph.D. Education*, Maharishi Dayanand University, 1991.
- 30. S.K. Chand: "A Study of Personal Values of Adolescents Boys and Girls in Relation to Socio-Economic Status and Academic Achievement", *M.Phil.*, *Education*, Ravenshaw College, Cuttak, 1992.
- 31. N.M. Chhangan Lal: "A Study of the Value, Adjustment, Attitude towards Teaching Profession and Academic Achievement of Teachers' Children as Compared to Non-Teachers' Children" *Ph.D. Thesis in Education*, Saurashtra University. 1992.
- 32. S. Gautam: "A Study of Intelligence, Adjustment, Personal Values and Educational Achievement of Drug Takers", *Ph.D. Education*, Aligarh Muslim University, 1992.
- 33. Namrata: "The Relationship of Personality Traits, Situational Stress and Anxiety Factors to Student Achievement", *Ph.D. Education*, University of Kalyani, 1992.
- 34. K.Sen Barat: "An Investigation into the Personality Make-up, Intelligence and Study Habit of High and Low Achievers" *Ph.D., Education*, University of Calcutta, 1992.
- 35. R. Stagner, "Psychology of Personality", New York: McGraw Hill, 1961.



CHAPTER-II

Review of Related Literature:

The review of research literature pertaining to the problem revealed that a thorough search for factors of academic achievement has been made during the past fifty years. As far as known to the investigator, this is the first and comprehensive study in which an attempt has been made to explore the various personality characteristics along with values influencing academic achievement. A number of studies and investigations have been made, particularly in the U.S.A. and the U.K., on the role of personality factors in predicting the success and failures in secondary school. Values as related to academic achievement has failed to draw the attention of educational researchers. Only a few studies are available on values.

A further review of the related literature or studies would bring to light the aspects of personality which have been studied in relation to academic achievement and which ones have remained unexplored. This would explain the importance and necessity of the present study.

The existing researches that are directly and indirectly related to the present study may conveniently be divided into five segments.

- 1. Intellectual Factors
- 2. Environmental, Biographical and S.E.S. Factors
- 3. Personality Factors
- 4. Values Factors
- 5. High & Low Achievers

1. Intellectual Factors as Predictors of Academic Achievement:

Studies that use intellectual factors to predict the academic achievement are in abundance. Extensive data are available regarding tests of general intelligence and differential ability as related to scholastic achievement.

First of all the investigator would like to review global measures of ability and performance. Cronbach has reported one study in which correlation between intelligence and grades was .55. Traverse found that correlations between intelligence and grades range between .50 and .75 on the eight to tenth grade levels. Gough obtained correlations which range from .62 to .80 with three samples of high school seniors, and Friedhoff obtained and correlation of .44 with an eighth grade sample. Carter found correlation about .60 for three samples and Jacob obtained similar results. Nason observed correlations of .34 for boys and .39 for girls, using intelligence as a predictor of grades. These last correlations are lower than for the other sample, probably because of the narrow intelligence

distribution of the sample. These studies suggest that for the High school level, ability and grades are correlated at about .60. This is some what higher than the findings for the college level where the average correlation is about .50. Lavin⁸ remarks that "In all probability this is primarily due to the wider range of ability on the high school level. On the college level, admission procedures tend to eliminate those of low ability. As the ability range becomes narrower correlations with performance are likely to decrease".

In a study (that used a battery of Predictors) Wellman⁹ found a multiple correlation of about .80. The general and possible conclusion that can be drawn from the other studies^{10,11}, that correlation between ability and school or college averages run between .40 and .50. It is a rough but fair generalization.

Bhatnagar¹² quoting Froehlich and Hoyt says that when the measures of mental ability and achievement as measured by standardized tests are correlated, co-efficients can be expected to range from .30 to .80, most of them at or near .55, the middle of the range.

A study was conducted by V. Jha¹³ in which academic achievement in Science has been found significantly correlated with general intelligence.

2. Environmental, Biographical and S.E.S. Factors as Predictors of Academic Achievement:

It appears from a number of investigation that some environmental characteristics may also explain the discrepancies between aptitude and achievement. Thus Campbell 14 (1952) observed that certain aspects of the background(Socio cultural aspects consisting of social activities, cultural objects in the home and the cultural values and attitude of parents) greatly affected secondary school achievement. Kemp¹⁵(1955) also found attainment to be related to socio-economic status. Klausmier 16 (1958) compared certain physical, behavioural and environmental characteristics of high and low achieving students and observed that two environmental factors were different for the two groups. One was the parental occupation and the other was the sex ratio in the class. Duff and Seigel¹⁷ (1960) observed a negative relationship between effective utilisation of academic ability on the one hand and a degree of participation in physical, social and hetrosexual activities on the other. Hunt¹⁸ (1961) tried to explore fourteen characteristics including age, parental education, number of elder brothers and sisters, number of younger brothers and sisters, age and occupational level of parent or guardian etc. But none of these factors showed a significant difference between over and under achievers.

Dugan¹⁹ (1962) obtained a relation between the educational tradition of the family and success at school. Street,

Powell and Hamblen²⁰ (1962) concluded that the larger school tended to produce higher achievement level. Watson's²¹ attempt (1965) to predict achievement with the help of several(family) background variables showed that excepting father's educational level, none of the variables was related to scholastic academic achievement.

In a stratified society, as that in India, a researcher is apt to start with a hypothesis that S.E.S. contributes to academic performance. In one of the studies Mathur²² (1963) has studied the effect of S.E.S. on behaviour and achievement of secondary school students. He has noted that S.E.S. is significantly correlated to educational achievement, Intelligence and conduct of student. In his study Chopra²³ (1964) has examined the relationship between S.E.S. factor and academic achievement keeping the effect of intelligence constant. He has found that nearly ninety six percent of students who discontinued education attribute the reason to poor economic condition of the family. On the basis of parents education, occupation family income, type of lodging] size of the family and cultural level of home, students belonging to higher qualitative group show significantly higher achievement.

3. Personality Factors as Predictors of Scholastic Achievement:

Harris²⁴ has published review of 147 studies conducted prior to 1930. In many of these studies an attempt was made

to correlate selected personality characteristics of students with their school/college grades. Harris found that the findings up to that time had been conflicting and inconclusive.

Another survey of such literature was published by the same author in 1940, in which 328 studies of scholastic prediction conducted mostly between 1930 and 1937 were reviewed²⁵. From review of these studies Harris concluded that in order of importance of the factors of achievements were (a) ability (b) efforts and (c) circumstances (personal, social, economic, academic) and (d) some personality factors, were found related to scholastic achievement in some ways. He found that coefficient of correlation (r) was .57.

A study conducted by Taylor²⁶ revealed rating on A.C.E., personality correlated .40 with scholarship, raising multiple R with intelligence and high school grades from .47 to .73.

A personality scale measuring introversion was used to predict grades in some studies. Stalnaker²⁷, and Fleeming²⁸ found that the grade differences between the two extreme groups on this scale were significant. But in other three studies^{29,30,31} the same scale correlated Zero or practically so with scholarship. The Pressey X-O test also was found to be having no relationship with grades. Using the Questionnaire device, it was concluded in several studies^{32, 33} that what is called introvert behaviour is associated with grades than its opposites.

In 1949 Garrett³⁴ mentioned about 63 studies in which personality factors were studied as predictors of scholastic achievement. The reported correlation of these factors with college grades varied between 0.30 and 0.64

Jane Beasley³⁵ published in 1957 a review of literature related to research on under achievement. Interesting and more convincing finding have been reported in this brochure regarding personality factors causing under achievement.

E.Mar Jorie, Ainsworth³⁶ conducted a study from which they concluded that none of the further personality factors correlated significantly with intelligence, with the exception of factor, which is also a measure of intelligence, conscientiousness and self sufficiency were the most promising factors as predictors of school attainment. Another study conducted by R.D. Savage³⁷ revealed that neuroticism and introversion scores on the Maudsley personality inventory are significantly related to academic performance. The positive association between neuroticism and academic failure does not follow the results of (Funneauth 1951) (Lynn 1959) and others.

In 1968, Cattell and Butcher³⁸ in their publication suggested that variance in academic achievement is equally divided among ability, motivation, personality factors, each of which accounts for about 25%. The result of the study indicate that some specific areas of achievement seems to have their

own unique set of personality traits associated with them. Thus for example achievement in mathematics is significantly, (P.05) correlated with factor H (adventurousness) in both the 6th the and 7th class grades and also with factor E (Dominance) (P.05), tough mindedness (P.01) and J (Individualism) in the 7th grade. For the most part, however, when a personality factor significantly predicts achievements, it does so ever all most of the four separate areas of social studies, science, mathematics and reading.

James³⁹ while quoting a study, reported that variability in achievement among equally able students could be accounted for in-terms of different degrees of adjustment and in differing degrees of ability and willingness to adjust to the demands of school situation. It was concluded that low achievers had less will to adjust, had developed less leadership ability, were more aggressive, liked school less and had lower educational aspiration than their high achieving peers.

Burgess⁴⁰ (1956) found no differences in the anxiety index for the over and under achieveing groups. Holland⁴¹ (1960) noted that only high achieving girls were characterized by lack of tension and that the result was not valid for boys. According to Endler (1960) anxiety had no direct and significant relation with scholastic achievement but where the subjects were trichotomized into high middle and low achieving groups, anxiety was found to increase the correlation between

the predicted and actual grade average for high achieving groups and to decrease the correlation for the middle and low groups. In Spielberger's 42 study (1960) anxiety was found to facilitate the scholastic achievement of the higher ability group only. Maling 43 (1964) noted that anxiety was responsible for greater variability in scholastic performance, and that for high achieving group only.

Neuroticism, which is another personality variable studied in connection with achievement discrepancy, shows a similarly conflicting results. For investigators like Eysenck⁴⁴ (1957) Lynn⁴⁵, Lynn & Gordan⁴⁶ (1961), good educational attainment was facilitated by neuroticism. But according to Savage⁴⁷ (1962) scholastic achievement and neuroticism were negatively related. Similar study was conducted in India by Mohanta⁴⁸ (1965) suggested that high achievers were, in general, less neurotic.

Wright⁴⁹ (1955) succeeded in predicting under achievement by means of the scale of the junior-senior high school personality Questionnaire. Butcher et. Al⁵⁰ (1963) using the same tool observed that thirteen variables of the Questionnaire were correlated with scholastic achievement. Ridding⁵¹ noted significant differences between over and under achieving students on three scales of the questionnaire, viz. dominance, surgency and conscientiousness.

The majority of the reported studies appear to have made what may be called a test oriented approach. In other words, the investigators have tried to ascertain how far factors measured by a certain test can discriminate the two groups. In many cases such test have been chosen arbitrarily and the rationale guiding this choice is missing in the report. Here an attempt has been made in the following pages to review some of the previous methods of researches and their findings.

P.A. Abraham⁵² attempted to determine the influence of the basic personality factors on scholastic achievement. As a result boys were found to be significantly superior to girls on several achievement variables so the data obtained for boys and girls were factors analysed separately. It was found that factor analysis of personality variables and scholastic achievement involved a factor pattern in which three factors could be identified, viz., scholastic aptitude, neuroticism and extroversion introversion.

Bhatnager⁵³ has also shown the personality factors in terms of need effect scholastic achievement. Age, sex and intelligence were constant. Male students of class XI of Rajasthan formed the sample of the study of the 1941 students, 912 belonged to humanities group, 476 to commerce, 553 to Science group. Bhatnagar reported in his one of the study that the need for autonomy, interception, succurrance, dominance nuturance, endurance and aggression correlate positively and

need defence, affiliation and abasement correlate negatively with scholastic achievement.

H.K. Mishra⁵⁴ in his study "Personality Factor in High and Low Achievers in Engineering Education", has reported that high and low achievers do not show significant differences in general mental ability excepting in factors such as anxiety, judgment, neuroticism, morality and sense of responsibility.

Gopal Rao⁵⁵ has also drawn conclusion from his "Study of some Factors Related to Scholastic Achievement", that certain personality factors affect scholastic achievement of VIII class students. Singh⁵⁶ in his study found the intelligence and some of the personality factors namely emotional maturity, persistence, efficiency, sociability and general adjustment are positively correlated with scholastic achievement. He concluded that prediction based on these positively correlated personality factors was 29% and when these factors were combined with intelligence the determined variable was 33.6%

N.P. Banerjee⁵⁷ aimed at making a comparative study of four types of basic and non basic schools in respect of their scholastic achievement and some aspect of personality development. The difference in respect of their personality development has not been found to be significant.

Studies which have tried to probe into the relationship of certain personality factors with achievement during 1978 to 1983 are those of Mukherjee (1979), Dhami (1974), Bhushan and Ahuja (1977), Ravindra (1977), Singh and Kumar(1977), Goswami (1978), Shah (1978), Hom Chaudhary (1980), Shivappa (1980), Kumar (1981), Patel(1981), Menon (1982) and Zachariah (1983).

Singh and Kumar⁵⁸ (1977) and Bhushan and Ahuja⁵⁹ (1977), while inquiring into the relationship of anxiety and achievement came to the same conclusion. The former carried out their study on male graduate students measuring anxiety during their graduation and considering the previous examination marks as the index of their achievement. The later carried out their study on in-service teachers with a maximum of three years of experience, all persuing M.Ed. through correspondence course. Both the studies found anxiety to have a negative relationship with achievement.

Mukherjee⁶⁰ (1979) demonstrated the importance of controlling the differences between the anxiety groups with regard to a number of ability and self evaluation variables when prediction of scholastic achievement was to be made from non-intellectual factors. Ravindra⁶¹ (1977) used a variety of tools in his attempt to find out the effects of state factors anxiety, psychological stress and intelligence on learning and scholastic achievement. The data were analysed using the statistical techniques of analysis of variance and factor analysis. The study found that general anxiety by itself had

relatively little effect on scholastic achievement and that a combination of anxiety with intelligence considerably increased the accuracy of predicting scholastic performance. In his study involving pre-university students drawn from all colleges of Mizoram.

Home Chaudhri⁶² (1980) inferred that three factors self concept anxiety and S.E.S., came out as correlates of scholastic achievement. In yet another study using college student as sample, Hussain (1977)⁶³ concluded that anxiety was found to bear a curvilinear relationship with scholastic achievement.

Though, self concept has been studied as one of the many variables in a number of investigation, Shah (1978) Goswami and Sharma studied it as a major variables and looked into its relationship with achievement. In all the three above studies it was found that self concepts have a positive relationship with scholastic performance.

There is a single experimental study by Kumar⁶⁴ (1981) which considered the achievement of students through programmed instruction. The researcher has suggested the suitability of different programming styles in relation to the variables - general anxiety, extroversion, intelligence, and creativity.

Fantasy life of adolescent girls caught the attention of Zachariah⁶⁵ (1982). The investigator developed a fantasy

inventory and collected data on large sample of adolescents girls in Kerala. The study found the relationship between the fantasy life and educational achievement to be significantly negative.

4. Values and Scholastic Achievement:

Value is important in the learning process because it influences selection of the stimuli to which the learner responds, the rapidity of learning, retention of the learned response, and application of the learned materials. Theoretically, one's values must constitute an important source of behavioural motivation. School learning is also an aspect of behaviour. In few researches in India and abroad attempts have been made to analyse the relationship between values and academic performance of the students.

Cattell, Sealey and Sweney⁶⁶ made a study on the basis of which they generalized that value patterns operated strongly in the interaction of pupils and teachers and hence it was quite reasonable to think that pupils patterns of values were related to the level of pupils school learning. Walker⁶⁷ worked on values and found that the students of high scholastic achievement expressed higher traditional values than those of low scholastic achievement. Thomson⁶⁸ revealed that the grades earned by the students appeared to be related to personal values and the students making the highest grades to be those with emergent kinds of values.

Coleand Miller⁶⁹ conducted a study on male and female college students and concluded that academic achievement is significantly related to the values of students.

Hapner⁷⁰ made an attempt to examine if success and failure of divergent ethic groups can be related to discrepancies in values between them and the schools in which they are expected to function. The investigation uncovered significant differences in values between Maxican-American and Anglo-American boys which influence their educational behaviour and achievements. In his comparative study, Gumeson⁷¹ found that high creative group of male scored high social and religious values.

Bellucci⁷² revealed that none of the values was significantly related to scores obtained by the trainees in nursing training programmes. Leadership was the only value giving significant correlation with completion of the practical nursing programme.

Soble⁷³ conducted a study on students value change and congruency with faculty values in professional education. The findings demonstrated that there was no significant academic differences between students who were congruent and non-congruent with faculty.

In the present study, the researcher has attempted to analyse the relationship of values with academic achievement of girls studying in class X.

5. High Achievers & Low Achievers:

It is of extreme importance to educators in general and teachers in particular, to know why some students achieve high while others achieve low in the same school environment. Thirteen studies fall under this classification during 1978-83 which are cited in Third Survey of research in Education edited by M.B. Butch, Published by N.C.E.R.T., New Delhi. They are of Menon (1972), Agarwal (1975), Jain (1975), Ghuman (1976), Iyer (1977), Patel and Joshi (1977), Koul (1978), D. Joseph (1979), Nagpal (1979), Saun (1980), Somasundaram (1980), and Kulshrestha (1981). All these have attemped to compare over and under-achievers on certain personality and other characteristics.

Jain⁷⁴ (1975) found that bright achievers were characterized by better study habits and higher achievement motivation than the dull achievers. Agrawal⁷⁵ (1975) who made a psycho-social study of scholastic under-achievement concluded that under-achievers were comparatively less emotionally mature, less calm, less placid, less prone to getting into difficulties, less able to face reality and possessing less ego strength than over-achievers.

Menon⁷⁶ (1972) made a comparative study of over and under-achievers of high ability on certain personality characteristics, motivational factors, interest areas, etc Overachieving groups of superior and general ability were found to

be less extrovert and less maladjusted than under-achievers. The former also showed greater scholastic interest and endurance. Further, it was found that demographic factors and S.E.S. markedly influenced over and under achievement

Another study which again concentrated on patterns of achievement among bright students was of Kulshrestha⁷⁷ (1981), who worked on a sample of science and mathematics students from colleges. The results brought forth the differences in the area of vocational interests, certain personality characteristics, and some home factors for the differentially classified achievers in different subjects of study.

Koul ⁷⁸(1978), Iyer⁷⁹ (1977), and Soma Sundram⁸⁰ (1980) conducted studies on under or over achievement in mathematics. Koul studied the differences on Murray's needs. He found that low achievers in mathematics were found to be more exhibitory succorant, heterosexual and aggressive than the high achievers. In the study of Iyer the personality variables self reliance, sense of personal freedom, feeling of belonging, withdrawing tendencies, nervous symptoms, social skill school relations, general anxiety and test anxiety discriminated effectively between over achievers and normal-achievers, normal-achievers and under-achievers, and over-achievers and under-achievers in relation to achievement in mathematics. While in the study of Somasundram, personality variables of social standards, introversion, family relations, social skills,

general anxiety, school relations, self reliance, masculinity, antisocial tendencies (freedom from) and nervous symptoms (freedom from) were discriminated between unselected groups of over-achievers and under-achievers.

Variables which discriminated between the unselected groups of normal and under-achievers were social standards, introversion and family relations. In the case of equated groups variables which showed significant discrimination between normal and underachievers pertained to sense of personal worth, intro-version, and social standards.

The study of Ghuman⁸¹ (1976) showed that overachievers did not differ significantly on any of the variables, namely, aptitudes achievement motivation, or personality factors. The study attributed over-achievement primarily to non-intellective personality variables, and under-achievement to intellective factors.

Nagpal⁸² (1979) made a study of non-intellectual characteristics of over or under-achieving engineering students. The study revealed that academic adjustment was an important correlate of over-or under-achievers. Further, under-achievers reported a greater number of emotional problems typical to youth.

Saun⁸³ (1980) studied the patterns of self disclosure and adjustment among high and low achievers. Male high and low

achievers equally disclosed their self to others in all the eight dimensions of self-disclosure inventory, namely, money, personality, study, body, interests, feeling ideas, vocation, and sex while among female high and low achievers, significant difference was found in self disclosure in relation to five areas namely, money, body, interests, feeling ideas, and sex. Regarding adjustments male high achievers were found to be more adjusted than low achievers in the areas of home and health, while there was a significant difference between high and low-achieving female, in health, social emotional and educational areas of adjustment. In Patel and Joshi's (1977) study, high achievers were found to have scored high on family adjustment than low achievers. Also the former were found to be better adjusted personally than the latter.

Joseph⁸⁴ (1979) in his study found that variables like number series, formulation spatial ability verbal comprehension and interpretation, critical thinking, attitude towards science, science interest, personal adjustment and low achievers.

Conclusion:

Summing up, it can be said that in earlier section the studies of personality factors and values as predictors of scholastic achievement have muddled the water. It is very difficult to draw common conclusion. The diversity in results may be considered responsible due to the following reasons:

- 1. Use of wide variety of tools
- 2. Use of tools which are not perfectly valid measures of personality factors.
- 3. Heterogeneous groups of subjects with regard to characteristics like age, ability, religion, classes school climate etc.
- 4. Inadequate control of correlated variables.
- Inability to define personality factors in a particular field more precisely and exactly.
- 6. Application of diverse methods of identifying under and over achievers.
- 7. Inherent weaknesses of the test of significance.

These points have been kept in mind in planning of the present study. It is impossible to control all these factors in any single research. There is a considerable paucity of researches attempting to study the effect of personality factors and values of female students on their scholastic achievement. Hence,0 the investigator has made an attempt to conduct the present study.

Present Study:

The review of research literature related to the problem presented in the foregoing pages indicates that there are very few studies in which such large number of variables like age, sex, S.E.S. and intelligence have been controlled for predicting

academic performance on the basis of personality characteristics along with values. Thus the present study departs from the previous investigations in that:

- 1. The present study covers a large sample on the basis of which definite conclusions can be drawn.
- 2. The Indian adaptation of sixteen P.F. questionnaire a standardized test which includes a wide variety of personality characteristics has been used.
- 3. In the research design sex, age, S.E.S, and intelligence have been controlled, and different combinations of personality characteristics along with values have been researched as the predictors of academic achievement.

REFERENCES:

- 1. Lee J., Cronbach: "Essentials of Psychological Testing", Harper and Brothers, New York, 1949.
- 2. M.W. Rotex Traverse: "Significant Researches on the Prediction of Academic Success" in W.T. Donahue and associates, Editors, the Measurement of Student Adjustment and Achievement University of Michigan Press, Ann Arbor, 1949.
- 3. H. Gough: "What Determines the Academic Achievement of High School Students", *Journal of Educational Research*, Vol. 46, 1953 PP-321-331.
- 4. W.H. Friedhoff: "Relationship Among Various Measures of Socio Economic Status, Social Class Identification, Intelligence and School Achievement", *Dissertation Abstract* Vol. 15, 1955, P-2098.

- 5. H.D. Carter: "Improving the Prediction of School Achievement by Use of the California Study Methods Survey", *Educational Administration* and Supervision Vol. 45, 1959, PP-255-260.
- 6. J.N. Jacob: "Aptitude and Achievement Measures in Predicting High School Academic Success", *Personal Guidance Journal*, Vol. 37, 1959, PP-334-341.
- 7. L.J. Nason: "Academic Achievement of Gifted High School Students", University of Southern California Press, Los Angles, 1958, P-92.
- 8. David E. Lavin: "The Predictation of Academic Peformance". John Wiley & Sons, Inc. New York, 1955, P-56.
- 9. F.E. Wellman: "Differential Prediction of High School Achievement" using Single Score and Multiple Factor Test of Mental Maturity *Personnel and Guidance Journal*, Vol. 35, 1957 PP-512-517.
- 10. Sadie Aaron: "The Prediction Value of Cumulative Test Results", Doctorate Thesis, Stanford University, 1946 P-22.
- 11. W.M. Clell: "Selection for Secondary Education" London, University of LondonPress, 1942, P-67, Table XXV.
- 12. R.P. Bhatnagar: "A Study of the Personality Factors as Predictors of Academic Achievement", *C.I.E. Studies in Education and Psychology*, Publication No. 63, 1968, P-20.
- 13. V. Jha: "An Investigation into Some Factors Related to Achievement in Science by Students in Secondary Schools", *Ph.D. Thesis*, Edited by M.B. Buch, "Survey of Research in Education, Centre of Advanced Study in education, Faculty of Education and Psychology, M.S. University, Baroda, 1974, P-331.
- 14. W.J. Campbell: "The Influence of Home Environment on the Educational Progress of Selected Secondary School Children", *British Journal of Educational Psychology*, Vol. 122, 1952, P-89-100.

- 15. L,C.D. Kemp; "Environmental and Other Characteristics Determining Attainment in Primary School", *British Journal of Educational Psychology*, Vol. 25 No. 1 1955, PP-67-77.
- 16. H.G. Klausmier: Physical, Behavioural, and other Characteristics of High and Low Achieving Children in Favoured Environment", *Journal of Educational Research*, Vol., 51, 1958, pp. 573-581.
- 17. L. Seigel, O.L. Duff: "Biographical Factors Associated with Academic Over and Under Achievement", *Journal of Educational Psychology*, Vol. 51, 1960, pp. 43-46.
- 18. J.G. Hunt: "A Study of the Non-Intellectual Factors Related to Academic Achievement Among College Seniors at Ball State Teachers College", *Dissertation Abstracts*, Vol. 22, 1961, p. 157.
- 19. R. Dugan: "An Investigation of the Personal, Social, Educational and /Economic Reasons for Success and Lack of Success in Schools as Expressed by 105 Tenth Grade Biology Students", *Journal of Educational Research*, Vol. 55, No. 10, Month August, 1962, pp. 544-553.
- 20. P. Street, H.J. Powell and W.J. Hamblen: "Achievement of Student and Size of School", *Journal of Educational Research*, Vol. 55, No, 6, Month March, 1962, pp. 261-266.
- 21. C.G. Watson: "Cross Validation of Certain Background Variables as Predictors of Academic Achievement", *Journal of Educational Research* Vol. 59. 1965. pp. 147-148.
- 22. Mathur: "Effects of S.E.S. on Achievement and Behaviour of Higher Secondary School Students", *Ph. D. Thesis*, Agra, 1963.
- 23. Chopra: "A Study of Relationship of S.E.S. with Achievement of the Student in the Secondary Schools" *Ph.D. Thesis*, Lucknow University, 1964.
- 24. D. Harris: "The Relation to College Grades of Some Factors other than Intelligence", *Archives of Psychology*, No, 131, 1931, P-131

- 25. D. Harris: "Factors Affecting College Grade", A Review of the Literature, Psychological Bulletin, Vol. 37, 1940 PP-126-166.
- 26. H.R. Taylor: "The Scholastic Significance of Certain Personality Traits", (Abstract) *Psychological Bulletin*, Vol. 30, 1933, P-60.
- 27. J.N. Stalnaker: "A Statistical Study of Aspect of Purdue Orientation Testing Programme", *Bulletin Purdue University*, Vol. 28, 19 P-67.
- 28. E.G. Fleeming: "College Achievement, Intelligence, Personality and Emotion" *Journal of Applied Psychology* Vol. 16, 1932, PP-666-674.
- 29. R.R. Guilford and W.M. Voas: "Personality Test and Scholastic Attainment", *Personality Journal*, Vol. 9,1930, PP-305-308.
- 30. O.C. Held: "An Attempt to Predict the Success of University Freshmen in Their Adjustment to Scholastic Work", *University Pitab Bulletin*, 1931, PP-86-94
- 31. E. Eckert Ruth; "Analysing the Superior Student", *School and Society*, Vol. 41, 1935, PP-69-72.
- 32. M.O. Neel and C, O. Mathews: "Needs of Superior Students" *Journal of Higher Education*, Vol 6, 1935, PP-29-34.
- 33. D. Harris: "Factors Affecting College Grades" A Review of the Literature, 1930-1937" *Psychological Bulletin*, Vol, 37, 1940,P-131
- 34. H.E. Garrete: "Review and Interpretation of Investigation of Factors Related to Scholastic Success in College of Arts and Science and Teachers College", *Journal of Education*. Vol. 28, 1949, PP-91-138.
- 35. Jane Beasley: "Under Achievement", Review of the Literature, Talented Yourth, Project-H,M.L.I, Teachers College, Columbia University, March, 1957, P-21.
- 36. E. Margorie Ainsworth: "The Relationship between Motivation, Personality, Intelligence and School Attainment in a Secondary Modern School", *British Journal of Educational Psychology*, Vol. 3 NO,1, Month February, 1967, PP-1935-137.

- 37. R.D. Savage: "Personality Factors and Academic Performance," *British Journal of Educational Psychology*, Vol. 32, No. 3 1962, PP-251-253.
- 38. R.B. Cattell, K. Barton and T,E, Dielman: "Predication of School Achievement from Motivation, Personality and Ability Measure", *Psychological Reports*, Vol., 30, No. 1,1972,PP-35-43.
- 39. James V. Pierce: "Achiever and Under Achiever" A Comparison. *The Year Book of Education, The Gifted Child*, 1952, The University of London, Institute of Education and Teachers College Columbia University, New York, P-143.
- 40. E. Burgess: "Personality Factors of Over and Under Achievers in Engineering", *Journal of Educational Psychology*, Vol. 47 No. 2 Month February, 1956, PP-89-99.
- 41. J.L. Holland: "The Prediction of College Grades from Personality and Aptitude Variables", *Journal of Educational Psychology*, Vol. 51, No. 5 Month October, 1960, PP-245-254.
- 42. C.D. Spielberger: "The Effect of Manifest Anxiety on the Academic Achievement of College Students", *Mental Hygiene*, Vol. 46 1962,PP-420-426.
- 43. L.R. Maling: "Anxiety and Academic Prediction", *Journal of Counseling Psychology*, Vol-II, 1964, PP-71-75.
- 44. H.L. Eysenck: "The Dynamics of Anxiety and Hysteria", Route ledge and Kegon Paul, London, 1957.
- 45. R. Lynn: "Two Personality Characteristics Related to Academic Achievement", *British Journal of Educational Psychology* Vol. 29, No. 3, Month November, 1959, PP-213-216.
- 46. R. Lynn and I.E. Gordon: The Relation of Neuroticism and Extroversion to Intelligence and Educational Attainment", *British Journal of Educational Psychology*, Vol. 31, NO. 2 Month June, 1961 PP-194-203.
- 47. R.D. Savage: Op.cit.pp.251-253.

- 48. D, Mohanta: "Assessment of Personality, A Study of Bernreuter Personality Inventory", *Bulletin, Council of Social and Psychological Research*, Calcutta, No. 4,1965,PP-17-23.
- 49. S. Wright: "Some Psychological and Physiological Correlates of Certain Academic Under Achievers", *Ph.D. Thesis*, University of Chicago Library, 1955. References in Handbook for H.S., P.Q. Ref., No, 52.
- 50. H.J. Butcher:, M. Aims worth and J.E. Nesbith: "Personality Factor and School Achievement", A Comparison of British and American Children, *British Journal of Educational Psychology* Vol. 33, 1963, PP-276-285.
- 51. L.W. Ridding: "An Investigation of Personality Measures Associated with Over and Under Achievers in English and Arithmetic", *British Journal of Educational Psychology*, Vol. 37,1967. PP-397-398.
- 52. P.A. Abraham: "Influence of the Basic Personality Factors on Academic Achievement", cited in M.B. Buch, *Survey of Research in Education*. Faculty of Education and Psychology, M.S. University of Baroda, 1974.
- 53. R.P. Bhatnagar: "A Study of Some of the Personality Factors as Predictors of Academic Achievement", *C.I.E. Studies in Education and Psychology*, New Delhi, Publication No. 63.
- 54. H.K. Misra: "Personality Factors in High and Low Achievers in Engineering Education", cited in M.B. Buch, *Survey of Research in Education*, Faculty of Education and Psychology, M.S. University of Baroda, 1974.
- 55. Gopal Rao: "A Study of Some Factors Related to Scholastic Achievement C.I., E, Studies in Education and Psychology.
- 56. R.P. Singh: "Intelligence and Personality Traits as the predictors of School Performance", *Unpublished M.Ed. Thesis*, Aligarh Muslim University 1959-1960.
- 57. N.P. Banerjee: "Comparative Study of Four Types of Basic and Non Basic Schools in Respect of Their Scholastic Achievement and Some Aspects of *Personality Development cited in M.B. Buch Op. cit.*

- 58. Singh & Kumar: cited in M.B. Buch, "Third Survey of Research in Education", (1978-1983) Published by N.C.E.R.T., P-650.
- 59. Bhushan & Ahuja: cited in M.B. Buch, "Third Survey of Research in Education", (1978-1983) Published by N.C.E.R.T., P-650.
- 60. B.N. Mukherjee: "Prediction of Grades in Introductory Psychology from the Taylor Manifest Anxiety Scale using a Multivariate Covariance Adjustment Method", *I.S.I.* Calcutta, 1979.
- 61. Ravindra: "The Effect of State Traits Anxiety, Psychological Stress and Intelligence on Learning and Academic Achievement", *Ph.D. Thesis* Psychology, Punjab University, 1977.
- 62. S.H. Chaudhri: "An Analytical Study of Correlates of Academic Performance of College Student (Tribal) of Mizoram", *Ph.D. Education*, M.S.U.,1980.
- 63. M.Q. Hussain: "A Study of Academic Attainment in Relation to Level of Aspiration and Anxiety", *Ph.D. Thesis*, A.M.U.,1977.
- 64. A. Kumar: "The Relationship between Personality and Mental ability Variables and Achievement through Programmed Instructional Styles", *Ph.D. Education*, A.M.U., 1981.
- 65. S. Zachariah: "Fantasy Life of Adoloscent Girls and Its Influence on Educational Achievement", *Ph.D. Education*, Kerala University, 1982.
- 66. R.B. Cattell, A.P. Sealey and A.B. Sweney: "What Can Personality and Motivation Source Trait Measurement Add to the Prediction of School Achievement", *Brit. Jr. Edu. Psy.*, 1966, 36, 280-295.
- 67. H.E. Walker: "A Study of Differences in Expressed Values of High School Seniors of Selected Secondary Schools", *Dissert.Abst.Inter.*,1970, 31, 2200-A
- 68. O.E. Thomson: "High School Students Values Emergent or Traditional", *California Jr. Edu. Res.* 1961, 12,, 132-146.

- 69. C.W. Cole and C.D. Miller: "Relevance of Expressed Values to Academic Performance", *Jr. Counsel Psychol*, 1967, 14(3), 272-276.
- 70. E.M. Hapner: "Self-concept, Values, and Needs of Maxican American Under-Achievers", *Dissert. Abst. Inter.*, 1970, 31, 2736-A.
- 71. G.G. Gumeson: "A Comparative Analysis of Needs, Values, Cognitive Ability and Other Personality Characteristics of High and Low Creative", *Junior college Students' Studies*, 1964, 14:12, 5527-5528.
- 72. J.T. Bellucci: "The Contribution of Values in the Predicting Success in Practical Nursing Training Programmes" *Dissert. Abst.Inter.*, 1970, 31, 2731-2732-A.
- 73. R.K. Soble: "Student Value change and Congruency with Faculty Values in Professional Education Related to Reference Group Theory". *Dissert. Abst. Inter.*, 1978, 37(11),7346-A.
- 74. D.K. Jain: "A Study of Significant Correlates of High School Failures in Mathematics and English with Special Reference to Jammu Division", *Ph.D. Thesis in Education*, Jammu University, 1975.
- 75. S.K. Agrawal: "A Psycho-Social Study of Academic Underachievement at Secondary School Level in the State of Rajasthan", *Ph.D. Thesis in Education*, Rajasthan University, 1975.
- 76. S.K. Menon: "a Comparative Study of Personality Characteristics of Over-Achievers and Under-Achievers of High Ability", Ph.D.in Psychology, Kerala University, 1972.
- 77. L. Kulshrestha: "A Study of Certain Factors Related to Differential Patterns of Achievement Among Bright Students", *Ph.D. Thesis in Education*, Agra University, 1981.
- 78. L.Koul: "Personality Needs of High and Low Achievers in Mathematics," *Ph.D. Thesis*, Himachal Pradesh University, 1978.
- 79. K.K.Iyer: "Some Factors Related to Under-achievement in Mathematics of Secondary School Students," *Ph.D. Education*, Kerala University, 1977.

REVIEW OF RELATED LITERATURE

- 80. M. Somasundaram: "A Comparative Study of Certain Personality Variables Related to Over Normal and Under-achievement in Secondary School Mathematics", *PhD.Education*, CalicutUniveristy, 1980.
- 81. M.S. Ghuman: "A Study of Aptitudes, Personality Traits and Achievement Motivation of Academic Over-achievers and Under-achievers", *Ph.D. Thesis in Psychology*, R.S.U., 1976.
- 82. R. Nagpal: "A Study of Non-Intellectual Characteristics of Over-and Under-achieving Engineering Students", *Ph.D. Human., I.I.T.*, New Delhi, 1979.
- 83. G.S. Saun: "Patterns of Self-disclosure and Adjustment Among High and Low Achievers", *Ph.D. in Psychology*, Kum. University, 1980.
- 84. D. Joseph: "A Study of Some Predictors of Achievement in Chemistry at the Pre-degree Level", *Ph.D. Thesis in Edu.*, Kerala University, 1979.



CHAPTER-III

CHAPTER - III

Research Design of the Study:

The research problem was discussed in the preceding chapters. In the present chapter, the sample, the variables and the statistical procedures involved in the study have been discussed under the following heads:

- 1. Method of Study
- 2. Population and Sample
- 3. Tools Used
- 4. Variables Involved
- 5. Collection of the Data
- 6. Organization of the Data
- 7. Statistical Techniques Used

1. Method of the Study:

As already discussed in the preceding chapters, researches in this area have employed different methods of study for investigating the relationship of personality factors with scholastic attainment. It will be difficult to say which of them is most appropriate method, as every one has its own merits and demerits. Moreover, it cannot be said that the research methods used in one study are superior or inferior to those used in other researches. This made the choice of research

method difficult. Methods of research are sometimes determined by the theory of the topic under study, objectives of the study resources of the investigator etc. All these considerations have led the investigator to use the normative survey method of research in the present study. In the present investigation all the steps and characteristics have been followed which are essential for the normative survey method of research.

2. Population and the Sample:

All the students of Class X, studying in various girls intermediate colleges of Chitra Koot Dham Mandal constituted the population of this study. The study was confined to the female students only. Male students were not included in the population, because personality factors of males are likely to differ widely from those of females. Hence, the two sexes need separate studies. Thus, the results will be applicable to only female population.

The sample was selected so as to match the study and help in achieving the purposes of the study Chitra Koot Dham Mandal consists of four districts, i.e. Banda, Chitrakoot, Hamirpur and Mahoba.

The target of sampling procedure was to select the random representative sample of the girls of X class studying in various high schools and intermediate colleges of above mentioned four districts of Chitra Koot Dham Mandal.

RESEARCH DESIGN OF THE STUDY

A survey was made to find out the ages of X grade students and it revealed that no one was less than fifteen year's old. Few of them were older than 18 years. Hence it was decided to include the pupils of the age range 16 to 17 years in the sample.

In all a sample of 1200 girls students from humanities, commerce and science streams was used in the study. The table No. 3-1 represents the distribution of cases from each schools.

TABLE 3.1
STREAM WISE DISTRIBUTION OF THE SAMPLE

S.N.	Name of the School	No. of students
1.	G.G.I.C. Banda	155
2.	A.K.I.C. Banda	52
3.	B.P. Omar Vaishya I.C. Banda	40
4.	G.G.I.C. Attara (Banda)	70
5.	G.G.H.S.S. Baberu (Banda)	29
6.	G.G.H.S.S. Kamasin (Banda)	15
7.	Nagar Palika Girls Inter College, Banda	15
8.	Fatma Girls Secondary School, Banda	10
9.	G.G.I.C. Karvi (Chitra Koot)	80
10.	G.G.I.C. Manikpur (Chitra Koot)	70
11.	G.G.I.C. Rajapur (Chitra Koot)	90
12.	G.G.I.C. Modha (Hamirpur)	60
13.	G.G.I.C. Hamirpur	95
14.	G.G.I.C. Rath (Hamirpur)	94
15.	G.G.H.S.S. Sumerpur (Hamirpur)	10
16.	G.G.I.C. Kurara (Hamirpur)	12
17.	G.G.H.S.S. Sisolar (Hamirpur)	05
18.	G.G.H.S.S. Gohand (Hamirpur)	09
19.	Hiranand Balika H.S.S. Vivar (Hamirpur)	06
20.	G.G.I.C. Mahoba	100
21.	G.G.I.C. Charkhari (Mahoba)	103
22.	G.G.H.S.S. Panwari (Mahoba)	30
23.	G.G.H.S.S. Kulpahar (Mahoba)	25
24.	G.G.H.S.S Jaitpur (Mahoba)	17
25.	B.S. Balika Inter College Kabrai, Mahoba	08
	Total	1200

Tools Used:

The following tools were included in the Battery:

- a- 16 P.F. Questionnaire by Dr. R.B. Cattell, an Indian adaptation by Dr. S.D. Kapoor, Form-C for the assessment of personality factors.
- b- Personal Value Questionnaire, constructed by Dr. Shanta Kumari Agarwal, revised and standardized by Dr. P. Singh for the assessment of values (PVQ).
- c- S.E.S. scale Form A (urban) and form B (Rural) constructed and standardized by Dr. S.P. Kulshrestha.
- d- S.S. Jalota Group Test of General Mental Ability 1972 (JGTMA).

The details of aforesaid tests have been discussed in following pages.

3(a) Assessment of Personality Factors:

Generally there are two models for assessing the personality namely- the concept of 'type' and 'factors', All port, Thorpe and Schmuller, Stanger, Hathway and Mckinly, Guilford, Zimmerman, Lovell, Lerry and Cattel attempted to analyse personality into factors for special investigation. Many of them have constructed omnibus personality inventories aiming at measuring different factors of personality. Dr. Cattell sixteen P.F. questionnaire has been used by a large no. of researchers.

Hence, it has been considered for measuring the various personality factors. Indian adaptation of Dr. R.B. Cattell Sixteen P.F. test by Dr. S.D. Kapoor has been used for measuring all the personality factors. Except this test there was no such test which could measure such a large number of personality factors. The details of aforesaid test are as follows:

SIXTEEN P.F. QUESTIONNAIRE

(A scale for measuring sixteen factors of personality)

Edition - Form-C, Hindi Edition

Author - Raymond. B. Cattell and Holla Beloff

(Original Authors)

Publisher - Institute for Personality and Ability

Testing, 1602-04 Cornado Drive,

Champaign, Illinois 61820, U.S.A.

Year - 1967.

Indian Adaptation - Dr. S.D. Kapoor, Psycho Centre T-22,

Green Park, New Delhi - 110016.

- First Hindi Edition: 1970.

- Indian Reprint: 1982, 1990.

- Revised Edition: 1991

Description of the Test:

The sixteen Personality Factor Questionnaire (16 P.F.) is an objectively scoreable test devised by basic research in psychology to give the most complete coverage of personality possible in a brief time. The test was designed for use with individuals age at sixteen and above. It contains form A, B, C,D for literate individuals where as form E and F of the test are designed for individuals with marked educational and reading deficits.

It is a new aid for teachers, guidance specialists and for general clinical and research use. It gives an objective analysis of the individual's personality to supplement teacher's personal evaluation. It is a standardized test that can be given to a single individual, or in groups to yield a general assessment of personality makeup. It measures sixteen distinct dimensions or factors of personality which have been found by psychologists to come nearer, covering the total personality. The personality factors are called by standard letter symbols as factor A, factor B, etc. Each factor is a continuous scale, has low and high levels of intensity.

The sixteen personality characteristics which are measured by the tool are as shown in table no. 3.2

This test can be scored for broad secondary order factors as well as for the sixteen primaries. Eight second order factors have been identified and replicated at the present time. The first four which will generally be of most interest to practitioners, are Introversion Vs. Extroversion (Q_I) , Low anxiety Vs. High anxiety (Q_{II}) , Tender minded-emotionally Vs. Toughpoise (Q_{III}) , and Subduedness Vs. Independence (Q_{IV}) respectively.

TABLE 3.2

S.No.	Factors	Chara	cteristics	Total No. of Scores in Each Factors
1.	Α	Reserved	- Out Going	18
2.	В	less Intelligent	- More Intelligent	8
3.	С	Effected by Feeling	- Emotionally Stable	18
4.	E	Humble	- Assertive	18
5.	F	Sober	- Happygo Lucky	18
6.	G	Expedient	- Conscientious	18
7.	Н	Shy	- Venturesome	18
8.		Thoughminded	- Tenderminded	18
9.	L	Trusting	- Suspicious	18
10.	М	Practical	- Imaginative	18
11.	N	Forthright	- Shrewd	18
12.	0	Placid	- Apprehensive	18
13.	Q ₁	Conservative	- Experimenting	18
14.	Q ₂	Group Dependent	- Self Sufficient	18
15.	Q ₃	Undisciplined self co	inflict - Controlled	18
16.	Q ₄	Relaxed	- Tense	18

Each of the sixteen dimensions of personality and eight second order factors measured by this test has a technical name(or several such names) and an alphabetic symbol for conveniences.

Administration:

The test is very easy to administer and most subjects find it interesting, it is without time limit, yet it can be completed within forty-five minutes. Instructions and examples are written on the cover page and thus it is easier to administer even by the beginners.

Scoring:

Answer-sheets are scored by two scoring key. Each key gives raw scores of eight of the factors. Key no. 1 gives the raw scores of A,C,F,H.,L,N, Q_1 and Q_3 personality characteristics where as key no. 2 gives the raw scores of B, E, G, I, M, O, Q_2 and Q_4 personality characteristics.

Interpretation:

Each dimension is defined by two poles or extremes. The left hand one is a score at the low end of the stens (1,2,3) and the right hand at the high end of the stens (8,9,10). However, one should guard against assuming that high scores (that is 10) are necessarily good and low scores, bad, because each type of temperament usually has both strong and weak points.

Reliability:

Reliability of the sixteen P.F. has been measured by the following methods:

- 1. Dependability, i.e., short term test-retest correlations.
- 2. Stability, i.e., retest after a long interval.
- 3. Equivalence.

TABLE 3.3

DEPENDABILITY COEFFICIENTS: TEST- RETEST AFTER 11 DAYS N = 20, AGES 15 TO 21 YEARS, ON FORM C.

FACTORS

-	Α	В	С	Е	F	G	Н	1	L	М	N	0	Q ₁	Q ₂	Q_3	Q ₄
Continues	0.83	0.69	0.73	0.81	0.86	0.66	0.79	0.58	0.62	0.76	0.62	0.84	0.58	0.69	0.59	0.77

TABLE 3.4

STABILITY COEFFICIENTS: TEST - RETEST AFTER EIGHT WEEKS N= 98, AGES 15 AND ABOVE ON FORM C

FACTORS

Α	В	С	Е	F	G	Н	ı	L	М	N	0	Q ₁	Q ₂	Q_3	Q ₄
0.79	0.58	0.69	0.78	0.73	0.65	0.71	0.58	0.58	0.66	0.59	0.81	0.59	0.62	0.51	0.63

TABLE 3.5

Equivalence Coefficients
On Form C & D, N = 20, Age 15 & Above Years

FACTORS

Name and Address of the Owner, where	Α	В	С	Е	F	G	Н	ı	L	М	N	0	Q ₁	Q ₂	Q_3	Q ₄
-	0.56	0.41	0.49	0.43	0.51	0.41	0.68	0.46	0.39	0.42	0.38	0.62	0.63	0.43	0.41	0.55

Validity:

The item in these final form are the survivors from several thousands of items originally tried and constitute only those which continue to have significant validity against the factors after ten successive factor analyses (Cattell, 1973) on different samples. These analyses have both varified the existence and natural structure of the sixteen factors, and cross validated the

test items in their correlation with the factors on different adult population samples. Concept validity coefficients also have been evaluated by following two methods:

- 1. Direct Concept Validity.
- 2. Indirect Concept Validity.

0.79 0.35 0.70

0.63

Direct concept validity coefficients of sixteen scales have been evaluated directly by correlating the scale scores with the pure factor it was designed, to measure. Table No.3-6 gives these concept validity values for single form as shown in test manual.

TABLE 3.6

DIRECT CONCEPT VALIDITIES OF THE SIXTEEN P.F. SCALES (N=958)

FACTORS B C E F G H I L M N O Q1 Q2

0.41

0.83 | 0.67 | 0.92 | 0.70 | 0.49 | 0.44

Indirect concept validity may also be evaluated indirectly by determining how well the test scale's correlations with a representative sample of diverse psychological variables agree with those the conceptual criterion (pure factor) is expected to have. Table No. 3-7 presents these concept validities, indirectly evaluated for the full (Form A-B-C-D) as shown in the test manual.

 Q_4

 Q_3

TABLE 3.7

INDIRECT CONCEPT VALIDITIES OF THE FULL 16 P.F. (N=606)

FACTORS

А	В	С	E	F	G	Н	I	L	М	Ν	0	Q ₁	Q ₂	Q ₃	Q ₄
0.96	0.95	0.95	0.91	0.96	0.94	0.95	0.96	0.91	0.74	0.63	0.84	0.83	0.90	0.93	0.93

TABLE 3.8

VALIDITIES ESTIMATED FROM CORRELATION OF TWO FACTORS HALVES (C & D FORMS TOGETHER)

FACTORS

Particular Section 1	Α	В	С	Е	F	G	Н	1	L	M	N	0	Q ₁	Q ₂	Q ₃	Q₄
Section 1	0.91	0.82	0.85	0.89	0.93	0.77	0.89	0.71	0.74	0.87	0.74	0.92	0.70	0.83	0.72	0.88

This test is undoubtedly a major development in the personality area, originally based on a comprehensive factor analysis. A prodigious amount of statistical work has gone in to it. No, other test covers such a wide range of personality dimensions and never before have dimensions been so meticulously determined. It is little wonder that translation of sixteen P.F. into twenty-four languages and adaptation for five other English speaking cultures exist to facilitate international comparison. It has been widely used in a large no. of studies throughout the whole world.

Norms:

Sixteen P.F. Test: 1970 Hindi Edition's manual has mentioned the two types of norms (Male & Female) for form C and form D of different age groups for students and adults. Norms have been revised in 1991.

3 (b) Measurement of Values:

The investigator assume as stated in the first chapter that the values of students affect their attainment. They are increasingly concerned with the transmission of modern and democratic values with a view to create a technological society. There are several values test available in the field of psychology and education. All port Vernon and Lindzey study is one of the most important and reliable test. This test measures six important values viz. theoretical, political, aesthetic, social, economic and religious. One of the main objective of the present study is to study the personal and educational values. The Allport Vernon and Lindzey test did not have these values. Hence, the researcher used the Personal Values Questionnaire constructed by Dr. Shanta Kumari Agarwal which covers all the six values viz. Personal, religious, educational, materialistic, social and humanistic. It contains sixty pairs items representing a variety of familiar situation. In all, there are 120 statements, twenty of which measure each of six values. Basically, it was a test to measure the values of students.

The revision was made with the sole purpose of making it suitable for girls. In this process of revision, the many statements have been changed and reframed in keeping view to make suitable for girls also.

The revised test has been passed through the process of analysis and standardization. The difficulty indices and discriminating power which range from .20 to .80 and .18 & above were determined through the method suggested by Garrett¹.

Administration:

The administration is very easy. Instructions for administering has been given in detail. The subject record his responses by putting a weight against the item selected on a separate answer sheet, containing six pages.

Scoring:

Scoring is too simple. The weights and scores on each page has been added for each value and the total has been transcribed at the bottom of the each page. The each page total for each of the Six values has been summed up on the table printed at the beginning of the answer sheet.

Reliability:

The reliability coefficients of Personal Value Questionnaire (PVQ) were determined from the sample taken for this study.

TABLE 3.9

RELIABILITY COEFFICIENTS OF THE P.V.Q.

Method	Reliability Coefficients
Split Half	.86
Rational Equivalence	.90

There is a clear agreement between the coefficient of reliability found by two different methods.

Validity:

The validation of the content(test items) through competent judgments has been made, again on the same sample. Less defensible than content validity is the judgement process called "Face Validity". Judgements of face validity were relevant to test items situations.

The index of reliability is same as a measure of validity.²

Hence Validity Coefficient
$$r_{1\infty} = \sqrt{\text{reliability coefficient}}$$

This means that the test measures true ability to the extent expressed a r of .93.

3(c) Socio-Economic Status Scale:

A scale for measuring Socio-Economic Status for rural and urban pupils.

Edition: 1987

Author: Kulshreshtha, S.P.

Publisher: Psychological Corporation, 4/230, Kacheri Ghat Agra.

Description of the Scale:

Socio-Economic Status Scale (SESS) Form A for urban people and (SESS) Form B for rural people each consists of five component variable which were found to be most significant indicating the S.E.S. of urban and rural families. Both the scale Form A and Form B are verbal which contains 20 Items each.

Administration and Scoring:

This scale can be administered individually as well as in the groups also. If the subject fills the information him self, he is supposed to put a Tick (\checkmark) for the due information. The scale has transparent scoring key for easy and simple scoring. Norms have been provided for comparison purpose.

The weightage of each item has been given on the transparent key. Put the key on the scale (page 2) and add the scores mentioned above the each box on the key for each ticked

or right answer (\checkmark). Repeat the same procedure for other page No. 3, 4 and 5. Add all the scores for all pages of scale. This grand total of all the scores for all pages will be the S.E.S. of the testee. Compare the grand total numericals with the norms and assign the category to the person accordingly.

Reliability:

The reliability was calculated by using test-retest method with a short interval of one month for rural and urban scale.

The coefficient of correlation were found quite high (0.85 for rural scale and 0.87 for urban scale)

Validity:

The validity of scale was also calculated by comparing the other scale of S.E.S.. The coefficient of correlation were found 0.89 for urban scale and 0.81 for rural scale respectively.

Norms:

TABLE : 3.10
(SHOWING THE NORMS N= 1000 VILLAGERS)

S.No.	Distribution of Raw Scores	S.E.S.
1.	110 and above	High
2.	60 to 110	Average
3.	Below 60	Low

TABLE 3.11
(SHOWING THE NORMS N = 1000 URBAN)

S.No.	Distribution of Raw Scores	S.E.S.
1.	223 and above	High
2.	108 to 223	Average
3.	Below 108	Low

3(d) Group Test of Mental Ability:

Edition

- Hindi Edition 1984

Author

Dr.S.S. Jalota

Publisher

Published by the author 225, sector 16,

Chandigarh.

Description of the Test:

Aforesaid test consists of activities that are verbal numerical and reasoning tasks. This test measures the mental ability of VIII, IX and X class students mainly 15 to 18 years old. It consists of 100 items.

Administration and Scoring:

This test is simple to administer for a class in a period of 45 minutes. All the instructions are provided to the students and they are asked to response on test items on separate answer sheet. Scoring is being made with the help of general scoring key and the category is being determined with the help of stanine norms.

Reliability:

Reliability coefficients were found satisfactory (0.91) when the split half method was used and when retesting took place with in a very short time, it was found 0.89.

Validity:

Validity of revised test has been reported 0.81 on the basis of factor analysis.

3 (e) Measurement of Scholastic Achievement:

The investigator had taken the U.P. Board high school examination marks in different subjects as their scholastic achievement.

The reliability and validity of above scholastic achievement was tested by the judgment of the concerning subject teachers who taught them the particular subject.

4. Variables Involved:

The present study involved three kinds of variables, namely:

- (a) Dependent Variable
- (b) Independent Variables
- (c) Controlled Variables

(a) Dependent Variable:

The dependent variable in this study was scholastic achievement. As mentioned above, annual high school examination marks were recorded as dependent variable.

(b) Independent Variables:

- i- Sixteen Personality factors had been measured as independent variables by Dr. R.B. Cattell 16 P.F. Test. A little description of all sixteen personality factors have been made in Chapter-I. An attempt had been made to bring out the relationship of each personality factors with scholastic attainment.
- ii- Values have also been used as an independent variables.

 It was attempted to find out the relationship of all six values to academic achievement of girls.

(c) Controlled Variables:

In the present study, only the S.E.S. intelligence and sex have been controlled. Sex has been controlled by restricting the study to male students only. Age was not considered important in this study, as the age variability in this population sample of Chitra Koot Dham Mandal, was found of low magnitude. Average age range of the total sample was found to be 17, the range of variability being from sixteen to eighteen. Only 30 out of 1200 boys were fifteen years old. In view of very narrow range of age variability, it was not considered important to control the age factor. Secondly, the students of this sample were not immature chronologically and it was thought that variation in intelligence personality characteristic and values introduced by age may not be significant, as it is generally found that the growth of intelligence and development

of basic dimensions of personality are almost completed by the time a child reaches seventeen or eighteen year of his age. Thus, in the present study, the age was not taken into consideration. Further in the present study the effects of school differences have been controlled by drawing out a random sample of schools using lottery system and it was thought that good and poor schools of the population had equal chance to emerge in the sample.

The variables involved in this study have been denoted by the following symbols:

- 1. Dependent Variable (Academic Achievement)
- 2. Independent Variables X
- (i) Sixteen Personality Facotors $(X_1, X_2, X_3 ... X_{16})$
- (ii) Six Values $(X_{17}, X_{18}, X_{19}, X_{20}, X_{21} & X_{22})$

Collection of Data:

The subject of study were the X class girls studying in different girls school of Chitra Koot Dham Mandal Banda. No. of subjects drawn as a sample from each inter college were listed in table No. 3-1, of this chapter. The principals of these girls colleges were approached personally one by one and the objectives of the present study were explained to them. They were requested to provide the facilities for the collection of data. The concerning class teachers were also requested to help

for data collection. They were instructed to answer the questions sincerely and truthfully. They were also assured that the responses would be kept strictly confidential.

The collection of the data for the present study was spread over in three phases. During the first phase, data was collected during second fortnight of December, 1999 and during the second phase, the first fortnight of Feb. 2000. Concerned schools from which the sample for the present study was drawn, were intimated well in time about the testing programme proposed to be carried out by the investigator. The tests were administered with the help of a selected set of colleagues each one of whom was thoroughly conversant with the administration procedures to be adopted during collection of data. As a further precaution a set of type written instruction was handed over to each tester and these instructions were strictly observed during the testing programme. During third face, Board scores were collected in second fortnight of July 2000.

Organisation of Data:

The data collected through the use of the various tools, however reliable, valid and adequate, it may be, were yet but raw. It needs to be systematized and organized i.e. edited, classified and tabulated before it can serve any worthwhile purpose. After scoring all the tests, the investigators organized the whole collected data, after being checked to see accuracy, utility and completeness.

Statistical Techniques Used:

The following statistical procedures were adopted for the analysis of data:

(a) Presentation of Data in the form of Frequency Distribution:

In the present investigation the following things have been studied on the basis of frequency distributions:

- i- The study of the distribution of scores, central tendencies, S.D. and Standard Error of the mean of the distribution.
- ii- Study of skewness and kurtosis. On the basis of these two things, the investigator has tried to judge that haw far the distribution is representing to the normal distribution.
- to read is the modality of the frequency distribution. As we know that the Pearson product-moment is only applicable when there is no bimodality or multi modality in the frequency distribution. If it is there Pearson product-moment correlation can not be applied. The frequency distribution is the most important and easiest way in throwing light on these things. Another characteristics which is also very important for using the Pearson product-moment correlation is, that this is only applicable when the distribution of score is near the characteristics of the distribution of normal curve. As a matter of fact Guilford³

has suggested three basic criteria for using Pearson product-moment correlation. One, out of those three characteristics can very easily be read with the help of the frequency distribution.

(b) The Coefficient of Correlation:

"A Coefficient of correlation is a single number that tells us to what extent two things are related, to what extent variation in one go with the variation in the other". Guilford warns that the following conditions must be observed before using the *Pearson product-moment correlation*:

- The trend of relationship between X and Y be rectilinear.
 This can be determined as a rule, by inspection of scatter diagram.
- 2. Second condition of r is that of homoscedasticity. When columns and rows are relatively homoscedastic, the Pearson r can be computed. This condition will prevail generally when the two distributions are fairly symmetrical within themselves. Thus, we need not go so far as to compute standard deviation of columns and rows in order to find it out.
- 3. Number of cases should be large in the sample. It is necessary for Pearson product-moment correlation that the number of cases should be more than thirty.

RESEARCH DESIGN OF THE STUDY

The above mentioned conditions have strictly been followed in the present investigation.

After being satisfied with all the conditions mentioned above, the investigator had used the Pearson product-moment correlation with full confidence. The basic formula for computing Pearson product moment coefficient of Correlations is:

$$r_{xy} = \frac{\Sigma XY}{N\sigma_x \sigma_y}$$

Where r_{xy} = Correlation between X and y

 σ_{x} = Standard Deviation of variable x

 σ_v = Standard Deviation of variable y

 Σxy = The sum of the product of deviation x and y from their respective means.

When we apply this formula in a scatter diagram, it takes the following shape:

$$r_{xy} = \frac{\frac{\sum xy}{N} - Cx Cy}{\sigma_x \sigma_y}$$

Where x and y are the deviations from assumed mean

N = No. of Cases in the sample

 Σxy = The summation of the product of x and y

 σ_{x} = Standard Deviation of variable x

 σ_{v} = Standard Deviation of variable y

$$Cx = \frac{\Sigma fx}{N} = \overline{x}$$

$$Cy = \frac{\Sigma fy}{N} = \overline{y}$$

$$Cy = \frac{\Sigma fy}{N} = \overline{y}$$

In the present investigation the following correlations have been computed between the independent variables and dependent variables.

- Correlations between personality traits and academic 1. achievements.
- Correlations between values and Academic Achievement. 2.
- Correlation between intelligence and academic 3. achievement.
- Correlation between S.E.S. and academic achievement. 4.
- Correlations between personality traits and intelligence. 5.
- Correlations between personality traits and S.E.S. 6.
- Correlations between intelligence and values. 7.
- Correlations between S.E.S. and values. 8.
- Correlations between personality traits and values. 9.

(c) Partial Correlation:

"The product moment coefficient of correlation between two variables x_1 and x_2 with the influence of third variable x_3 eliminated by statistical method is know as Partial Coefficient Correlation"⁵ and is written r_{12.3}. The formula which has been used to calculate the partial coefficient of correlation is laid down in the following:

$$\mathbf{r}_{12.3} = \frac{\mathbf{r}_{12} - \mathbf{r}_{13} \times \mathbf{r}_{23}}{\sqrt{\{1-\mathbf{r}_{13}^{2}\}} \sqrt{\{1-\mathbf{r}_{23}^{2}\}}}$$

Where $r_{12.3}$ = correlation between 1 and 2 and the effect of 3 is eliminated. This is known as partial coefficient of correlation.

 r_{12} = The Correlation between variable No. 1 and 2

 r_{13} = The Correlation between variable No. 1 and 3

 r_{23} = The correlation between variable No. 2 and 3

The partial coefficient defined earlier is known as first order coefficient. When the effects of two variables are eliminated the coefficient of correlation is known as Second Order Coefficient of Correlation. Second order coefficient of correlation is calculated from first order of Coefficient of Correlation. The formula 6 for partial coefficient of Correlation between x_1 and x_2 with x_3 and x_4 constant may be written in the following ways:

$$\mathbf{r}_{12.34} = \frac{\mathbf{r}_{12.3} - \mathbf{r}_{14.3} \times \mathbf{r}_{24.3}}{\sqrt{\{1 - \mathbf{r}_{14.3}^2\}} \sqrt{\{1 - \mathbf{r}_{24.3}^2\}}}$$

Or

$$\mathbf{r}_{12.34} = \frac{\mathbf{r}_{12.4} - \mathbf{r}_{13.4} \times \mathbf{r}_{23.4}}{\sqrt{\{1 - \mathbf{r}_{13.4}^2\}} \sqrt{\{1 - \mathbf{r}_{23.4}^2\}}}$$

In the present investigation two kinds of partial coefficients of correlation have been calculated. First is partial correlation of first order in which intelligence and S.E.S. have been controlled separately between the relationship of personality and values. Another partial coefficient of correlation of first order has been calculated between values and academic achievement, keeping intelligence and S.E.S. Constant separately.

Second is the partial coefficient of correlation of Second order in which intelligence and S.E.S. have been controlled at a time, with the relationship of personality and academic achievement.

Another second order partial coefficient of correlation has also been calculated between values and academic achievement controlling two variables at a time, they are intelligence and S.E.S.

(d) Multiple Correlation:

"In multiple Correlation, knowing the correlation of each of the several variables with a criterion as well as their correlation with one another, we attempt to obtain a weighted composite of the variables that will give the best possible prediction of the criterion."

$$R_{1 (23....n)} = \sqrt{\left\{1 - \frac{\sigma_{1.23...n}^2}{\sigma_1^2}\right\}}$$

If we replace 1.23n in this formula by its value, we get.

$$\sigma_{1.23...N} = \sigma_1 \sqrt{\{(1-r_{12}^2) (1-r_{13.2}^2)\}}$$

and, we may write the general formula for

$$R_{1.23 \dots N} = \sqrt{\{1 - (1 - r_{12}) (1 - r_{13.2}^2) (1 - r_{m...N-1}^2)\}}$$

The independent variables may be eliminated in more than one order.

Multiple R shows how accurately the scores from a given combination of variables represent the actual values of the criteria when our independent variables are combined in the best liner equation. R is the maximum correlation obtainable from a linear equation connection, earned and predicted scores.

In the present investigation multiple coefficient of correlation techniques has been adopted to analyse the data. Academic achievement has been predicted by the two variables, they are, personality traits alongwith values.

(e) Multiple Regression Analysis:

This method is employed for determining how an external criterion stands in relation to a number of independent variables.

It is used for prediction purposes, where it is desirable to predict a dependent variable from a number of independent variables.

The regression equation which expresses the relationship between a single variable X_1 and any number of independent variables X_2 , X_3 X_n may be written in deviation form as follows.⁸

$$\overline{x}_1 = b_{12.34...n} x_2 + b_{13.24...n} x_3 + ... + b_{n.23....(n-1)} x_n$$
 and in score form :

$$\overline{X}_1 = b_{12.34...n} X_2 + b_{13.24...n} X_3 + ... + b_{n.23...(n-1)} X_n + K.$$

These regression coefficient $b_{12.34.n.}$, $b_{13.24.....n.}$ etc. give the weights to be attached to the scores in each of the independent variables when X_1 is to be estimated for all those in combination. Further, these partial regression coefficients give the weights which each variable exerts in determining X, when the influence of the other variables is excluded. From the regression equation, we can predict as to what role each of the several variables plays in determining the scores in $X_1...$ the criterion. But the relative importance of the independent variable in predicting the dependent variables can not be determined since the standard deviations of the variables as unit of measurement are different. In order to bring the variables to comparable unit, they are represented in terms of standard scores, when expressed in terms of σ scores, partial

RESEARCH DESIGN OF THE STUDY

regression coefficient are usually called, Beta coefficient. The Beta coefficient may be calculated directly from b as follows

$$\beta_{12.34...n} = b_{12.34..n} \frac{\sigma_2}{\sigma_1}$$

The multiple regression for a variable may be written in σ scores as:

$$\overline{Z}_1 = \beta_{12.34...n} Z_2 + \beta_{13.24...n} Z_3 + + \beta_{1n.23.....(n-1)} Zn$$

Beta co-efficients are called beta weights. We are in a position to determine from the correlations calculated, the relative weight with which independent variables 'enters in', or contribute to, the criterion, independently of other factors.

In this study first of all on the basis of 22 variables (16 personality traits,6 values,) multiple regression analysis has been done, and then multiple regression equation has been framed.

(f) Significance of the multiple R: (Fiduciary Limits)

Multiple R is always positive, always less than 1.00 and always greater than the zero order coefficient of correlation. For an R derived from any number of variables, the standard error is:

$$\sigma_{R} = \frac{1-R^2}{\sqrt{\{N-m\}}}$$

in which, N-m represents the number of degree of freedom. Unless N is large and much larger than M, formula under estimate the amount of sampling error. After getting the value of standard error, confidence interval of 2.58 or 1.96 is multiplied by standard error. This multiplication is again added and subtracted ± from the value of R. If the obtained value is in between these two limits the multiple R is called significant.

In the present investigation the standard error and the significance of multiple R has been tested against .01 level of significance.

(g) Interpretation of R in terms of Coefficient of Alienation (K):

The coefficient of alienation gives us an estimate of the reduction in errors of prediction from the knowledge of correlated measurement. When R=0, K = 1 and the standard error of estimate $\sigma_{1.23}$ $n = \sigma_1 \sqrt{1-R^2_{1.23...n}}$ becomes equal to σ_1 that is the error of the estimate is as great as obtained when the dependent variable is predicted with out the knowledge of the independent variables. When R=1, K reduces to zero and so is the standard error of estimate. This indicates that the margin of error of prediction is zero when the correlation is perfect. The formula for finding out the coefficient of alienation is:

$$K = \sqrt{1 - R^2}$$

RESEARCH DESIGN OF THE STUDY

In the present study coefficients of alienation has been determined.

(h) The Interpretation of R in Terms of Forecasting Efficiency (E)

Index of forecasting efficiency (E) is defined as the percentage of reduction in error of prediction. It is estimated by the formula.

$$E = 100 \{1 - \sqrt{(1-R^2)}\} = 100 (1-K)$$

Forecasting efficiency has been calculated and has been presented in the table which has been used for interpretation.

(i) The interpretation of R in Terms of Co-efficient of Determination:

Another mode of interpretation of R which have been used in this study in terms of R² is called coefficient of determination. The values of R², when multiplied by 100 gives the percentage of the variance in the dependent variable, that depends upon or is associated with, or predicted by, the set off independent variables.

Multiple R of the present study has been squared and multiplied by 100, in order to get the coefficient of determination.

The above mode of the interpretating the results were applied in each of the multiple correlation.

(j) Significance of the Difference between Two Means:

In the present study the personality factors and values of high achievers and low achievers had been compared. This comparison was made on the basis of C.R. test. In calculating C.R. test the following formula, which is used for finding out difference between uncorrelated means in two samples have been presented in the following lines.

Where

 $\boldsymbol{\sigma}_{_{D}}$ is the standard error of the difference between two means.

 σ_1 and σ_2 are the standard deviations of the two group scores.

 N_1 and N_2 are no.of cases in both the group respectively.

C.R.
$$=\frac{D}{\sigma_D}$$

Where D is the difference between M_1 and M_2 where M_1 and M_2 are the means of both groups.

8. Computations Done:

In the present study all the computations had been made with the help of computer centre of council for social development, 53 Lodi-Estate, New Delhi. After making all the necessary computations, the data were summarized and interpreted. There have been set-forth in the tables of appearing in the next chapter of thesis.

REFERENCES:

- 1. H.E. Garrett: "Statistics in Psychology and Education", Bombay: Fourth Indian Edition, 1967. P.368.
- 2. H.E. Garrett: "Statistics in Psychology and Education", Bombay: Sixth Indian Edition, 1971, P.356.
- 3&4 J.P. Guilford: "Fundamental Statistics in Psychology and Education", New York: Mc Graw Hill Book Co. Inc., Third Edition, 1950, P-135.
- 5. M.W. Tate: "Statistics in Education", New York, MacMillan Company, 1955, P-298.
- 6. M.W. Tate: "Statistics in Education", New York, MacMillan Company, 1955, P-303.
- 7. Henery E. Garrett: "Statistics in Education and Psychology", Bombay, Fourth Edition 1967, pp. 413-414.
- 8. Henery E. Garrett: "Statistics in Education and Psychology", Bombay, Fourth Edition 1967, pp. 412.



CHAPTER-IV

CHAPTER - IV

Analysis and Interpretation of the Data:

The design of this investigation was presented in chapter third and the investigator had framed certain hypotheses to be tested with the help of data collected during investigation. The present chapter presents the analysis and interpretation of the data. Before doing so, it would be worthwhile to recall the out line of the design. The analysis of the data had been divided into four parts:

PART - A STUDY OF PERSONALITY CHARACTERISTICS AND ACADEMIC ACHIEVEMENT

- 1. Distribution of scores of the personality characteristics.
- 2. Distribution of scores on academic achievement.
- 3. Correlation with academic achievement.
- 4. Correlation with academic achievement partialling out intelligence.
- 5. Correlation with academic achievement partialling out S.E.S.
- 6. Correlation with academic achievement partialling out intelligence and S.E.S.

<u>PART - B</u> STUDY OF VALUES AND ACADEMIC ACHIEVEMENT

- 1. Distribution of scores on values.
- 2. Correlation of values with academic achievement.
- 3. Correlation of values with academic achievement partialling out intelligence.
- 4. Correlation of values with academic achievement partialling out S.E.S.
- 5. Correlation of values with academic achievement partialling out intelligence and S.E.S.

PREDICTION OF ACADEMIC ACHIEVEMENT

Prediction of academic achievement by combining personality factors and values.

<u>PART - D</u> <u>COMPARATIVE STUDY OF HIGH AND LOW ACHIEVERS</u>

Comparative study of the personality factors and values of high and low achievers, on the basis of Critical Ratio.

PART-A STUDY OF PERSONALITY FACTORS AND SCHOLASTIC ACHIEVEMENT

1. Study of the Distribution of Scores of Female Students on Personality Factors:

Factor A: Reserved Vs.Out going

TABLE 4.1

DISTRIBUTION OF SCORES ON FACTOR-A

N=1200

S.No.	Scores	f.	cum.f.	f.%	cum.f.%
1	12	12	1200	1.00	100.00
2	11	18	1188	1.50	99.00
3	10	48	1170	4.00	97.50
4	9	126	1122	10.50	93.50
5	8	180	996	15.00	83.00
6	7	396	816	33.00	68.00
7	6	196	420	18.00	35.00
8	5	96	204	8.00	17.00
9	4	90	108	7.50	9.00
10	3	18	18	1.50	1.50

Mean = 6.96, Median = 6.95, S.D. = 1.69, Skewness = 0.035, Kurtosis = 0.269, Standard Error of mean = 0.119

Discussion:

Frequency distribution no. 4.1 representing the distribution of scores of female students on factor 'A' appears to be symmetrical distribution. Mean and median are approximately the same. The value of skewness is almost zero. The value of kurtosis is the same as the value of mesokurtic curve. These above three facts are the evidence that the distribution of scores is normal one.

The standard error of mean shows that the chances of variation in the mean from other sample are very low.

Factors B: Less Intelligent Vs. More Intelligent

TABLE 4.2

DISTRIBUTION OF SCORE ON FACTOR - B

N = 1200

S.No.	Scores	f.	cum.f.	f.%	cum.f.%
1	6	192	1200	16	. 100
2	5	204	1008	17	84
3	4	300	804	30	67
4	3	240	444	20	37
5	2	204	204	17	17

Mean = 3.95, Median = 3.93, S.D. =1.28, Skewness = 0.46, Kurtosis = 0.266, Standard error of mean = 0.0905

Discussion:

Frequency distribution shown in table No. 4.2 is almost symmetrical about its mean position. The evidences of normality being, (1) Mean and median fall almost on the same point. (2) The value of skewness is very close to zero. (3) Kurtosis is also very close to mesokurtic curve.

Standard error of mean shows that the sample's mean is fairly close to population 's mean. Hence, these scores may be used very safely in calculating the product-moment coefficient of correlation.

Factor C: Affected by Feelings Vs. Emotionally Stable

TABLE 4.3

DISTRIBUTION OF SCORES ON FACTOR- C

N = 1200

		£ 1	cum.f.	f.%	cum.f.%
S.No.	Scores	f.	1200	1.50	100.00
1	12	18		·	98.50
2	11	72	1182	6.00	
3	10	108	1010	9.00	97.50
	09	168	1002	14.00	83.50
4			834	18.00	69.50
5	80	196		20.00	51.50
6	07	240	618	20.00	
	06	180	378	15.00	31.50
7		114	198	9.50	16.50
8	05	114	19	4.50	7.00
9	04	54	84		
10	03	18	30	1.50	2.50
10		12	12	1.00	1.00
11	02	12			

Mean 7.46, Median = 7.42, S.D. = 2.03, Skewness = 0.059, Kurtosis = 0.267, Standard Error of mean = 0.143

Discussion:

The above distribution No. 4.3 appears to be normal. Since table shows that mean and median of the distribution are nearly the same. The value of skewness is very close to zero. Kurtosis is also very close to the mesokurtic curve.

Standard error of mean shows that the chances of variation in the mean from other equivalent samples are very low.

Factor E: Humble Vs. Assertive

 $\frac{\text{TABLE 4.4}}{\text{DISTRIBUTION OF SCORES ON FACTOR - E}}$ N = 1200

		f.	cum.f.	f.%	cum.f.%
S.No.	Scores			1.50	100.00
1	9	18	1200	1.50	
2	8	36	1182	3.00	98.50
	7	144	1146	12.0	95.50
3		180	1002	15.0	83.50
4	6	100		20.5	68.50
5	5	438	822	36.5	
	4	192	384	16.0	32.00
6	1	132	192	11.0	16.00
7	3	102		4.0	5.00
8	2	48	60	4.0	
		12	12	1.0	2.00
9	1	14			

Mean = 5.00, Median = 4.99, S.D. = 1.503, Skewness = 0.019 Kurtosis = 0.264, Standard error of mean = 0.106

Discussion:

The distribution representing the performance of the female students on factor 'E' reveals that the mean and median almost coincide on the same point. The difference between the two, is almost negligible. The distribution is almost mesokurtic. Skewness is almost near to zero. On the whole, it can be safely said that the distribution of scores on this factors is almost normal. The standard error of mean shows the dependability of mean.

Factor F: Sober Vs. Happy-go-lucky

TABLE 4.5

DISTRIBUTION OF SCORES ON FACTOR F

N= 1200

S.No.	Scores	f.	cum.f.	f.%	cum.f.%
1	11	72	1200	06	100
2	10	120	1128	10	94
3	09	156	1008	13	84
4	08	252	852	21	71
5	07	264	600	22	50
6	06	144	336	12	28
7	05	132	192	11	16
8	04	60	60	05	05

Mean = 7.52, Median = 7.5, S.D. = 1.82, Skewness = 0.032, Kurtosis = 0.268, Standard error of mean = 0.129

Discussion:

Frequency distribution representing the distribution of scores on factor 'F' appears to be a symmetrical distribution. Table No. 4.5 shows that mean and median do not differ much. Skewness is very near to zero. The Value of kurtosis is in closeness to mesokurtic curve. All these evidences prove that distribution tends to be normal approximately.

Standard error of mean shows that there are 99% chances of variation in the sample mean from 7.19 to 7.85 (7.52±2.58x.129)

Factor G: Expedient Vs. Conscientious

 $\frac{\text{TABLE 4.6}}{\text{DISTRIBUTION OF SCORES ON FACTOR - G}}$ N = 1200

S.No.	Scores	f.	cum.f.	f.%	cum.f.%
1	12	90	1200	7.5	100.00
2	11	90	1110	7.5	92.50
3	10	210	1020	17.5	85.00
4	9	420	810	35.0	67.50
5	8	198	390	16.5	32.50
6	7	108	192	9.0	16.00
7	6	84	84	7.0	7.00

Mean = 9.005, Median = 9.00, S.D. = 1.45, Skewness = 0.001, Kurtosis = 0.263, Standard error of mean = 0.102

Discussion:

Table No. 4.6 represents the distribution of scores on factor 'F'. Mean and median do not differ too much. The value of skewness is very much close to zero. The distribution is almost mesokurtic.

On the whole, it can be said that the distribution of scores on factor 'G' is almost normal. Low standard error of mean shows the dependability of sample's mean.

Factor H: Shy Vs. Venturesome

TABLE 4.7
DISTRIBUTION OF SCORES ON FACTOR - H N = 1200

S.No.	Scores	f.	cum.f.	f.%	cum.f.%
1	12	6	1200	0.5	100.00
2	11	18	1194	1.5	99.50
3	10	150	1176	12.5	98.00
4	9	180	_, 1026	1.5	85.50
5	8	210	846	17.5	70.50
6	7	240	636	20.0	53.00
7	6	192	396	16.0	33.00
8	5	168	204	14.0	17.00
9	4	24	36	2.0	3.00
10	3	12	12	1.0	1.00

Mean = 7.385, Median = 7.35, S.D. = 2.044, Skewness = 0.051, Kurtosis = 0.267, Standard error of mean = 0.144

Discussion:

Table No. 4.7 represents the distribution of scores on factor 'H'. It seems to be symmetrical. Mean and median are very close to each other. Value of skewness is insignificant. Kurtosis is also very close to mesokurtic curve. Above evidences show that the distribution tends to be normal.

Standard error of mean is also very low which shows that the sample's mean is fairly close to the population mean.

Factor I: Tough minded Vs. Tender mined

TABLE 4.8

DISTRIBUTION OF SCORES ON FACTOR - I

N = 1200

S.No.	Scores	f.	cum.f.	f.%	cum.f.%
1	10	36	1200	3.00	100.00
2	9	48	1164	4.00	97.00
3	8	108	1116	9.00	93.00
4	7	252	1008	21.00	84.00
5	6	270	756	22.50	63.00
6	5	288	486	24.00	40.50
7	4	90	198	7.50	16.50
8	3	60	108	5.00	9.00
9	2	48	48	4.00	4.00

Mean = 5.93, Median = 5.92, S.D. = 1.69, Skewness = 0.017, Kurtosis = 0.265, Standarderror of mean = 0.119

Discussion:

Table No. 4.8 represents the distribution of scores of female students on factor 'I'. The distribution seems to be symmetrical. It is almost free from skewness. Mean and median are almost same. The value of kurtosis is in very closeness of the value of mesokurtic curve. On the basis of the above grounds, it can be safely said that the distribution approaches towards normality. Low standard error of mean also shows that our sample's mean is dependable.

Factor L: Trusting Vs. Suspicious

TABLE 4.9
DISTRIBUTION OF SCORES ON FACTOR - L N = 1200

S.No.	Scores	f.	cum.f.	f.%	cum.f.%
1	10	36	1200	3.0	100.00
2	9	54	1164	4.5	97.00
3	8	36	1110	3.0	92.50
4	7	72	1074	6.0	89.50
5	6	270	1002	22.5	83.50
6	5	270	732	22.5	61.00
7	4	264	462	22.0	38.50
8	3	96	198	8.0	16.50
9	2	90	102	7.5	8.50
10	1	12	12	1.0	1.00

Mean = 5.12, Median = 5.01, S.D. = 1.89, Skewness = 0.174, Kurtosis = 0.273, Standard error of mean = 0.133

Discussion:

Table No. 4.9 representing the distribution on factor 'L' shows that the distribution is almost symmetrical. Mean and median do not differ much with each other. It is slightly positively skewed but the skewness is too small to be insignificant. The distribution is slightly platikurtic, yet not deviate too much from the characteristics of N.P.C.. It is also clear from above evidences that the distribution approaches to be normal. The low value of standard error of mean shows the worthwhileness of the sample's mean.

Factor M: Practical Vs. Imaginative

TABLE 4.10

DISTRIBUTION OF SCORES ON FACTOR - M

N = 1200

S.No.	Scores	f.	cum.f.	f.%	cum.f.%
1	10	60	1200	5	100
2	9	144	1140	12	95
3	8	180	996	15	83
4	7	168	816	14	68
5	6	252	648	21	54
6	5	192	396	16	33
7	4	120	204	10	17
8	3	48	84	4	7
9	2	36	36	3	3

Mean = 6.4, Median = 6.31,S.D.= 1.99, Skewness = 0.135, Kurtosis = 0.269, Standard error of mean = 0.14

Discussion:

The above frequency distribution seems to be almost normal. Mean and median are very close to each other. Value of skewness is too low to be insignificant The value of kurtosis is also in closeness with the value of mesokurtic curve.

Again, the low value of standard error of mean indicates that our sample's mean will hit the population's mean very closely.

Factor N: Forthright Vs. Shrewd

TABLE 4.11

DISTRIBUTION OF SCORES ON FACTOR - N N = 1200

S.No.	Scores	f.	cum.f.	f.%	cum.f.%
1	12	6	1200	0.5	100.00
2	11	36	1194	3.0	99.50
3	10	60	1158	3.0	96.50
4	9	96	1098	8.0	91.50
5	8	150	1002	12.5	83.50
6	7	252	852	21.0	71.00
7	6	240	600	20.0	50.00
8	5	162	360	13.5	30.00
9	4	102	198	8.5	16.50
10	3	54	96	4.5	8.00
11	2	60	42	2.5	3.50
12	1	12	12	1.0	1.00

Mean = 6.49, Median = 6.5, S.D. = 2.109, Skewness = 0.0014, Kurtosis = 0.260, Standard error of mean = 0.149

Discussion:

Above distribution shows that it is quite symmetrical about its mean position. The value of mean & median are almost same. It is also almost free from skewness since its value is very low. The distribution is slightly leptokurtic but does not defaced the curve too much from the characteristics of N.P.C.

The low value of standard error of mean indicates that the chances of variation in mean from other equivalent samples are low.

Factor O: Placid Vs. Apprehensive

TABLE 4.12

DISTRIBUTION OF SCORES ON FACTOR - O N = 1200

N - 1200									
S.No.	Scores	f.	cum.f.	f.%	cum.f.%				
1	12	24	1200	2.0	100.00				
2	11	60	1176	5.0	98.00				
3	10	120	1116	10.0	93.00				
4	9	228	996	19.0	83.00				
5	8	336	768	28.0	64.00				
6	7	234	432	18.5	36.50				
	6	108	198	9.0	16.50				
7	5	72	90	6.0	7.50				
8		18	18	1.5	1.50				
9	4	10							

Mean = 7.945, Median = 8.00, S.D. = 1.55, Skewness = 0.106,

Kurtosis = 0.261, Standard error of mean = 0.109

Discussion:

Above distribution reveals that mean and median are almost same. It is almost free from skewness, However, it is very slightly leptokurtic, yet it does not deviated too much from the characteristics of mesokurtic curve.

All these evidences indicates that the frequency distribution of the personality scores on factor 'O' is normal.

Standard error of mean shows that the sample's mean is fairly close to the population's mean.

Factor Q_1 : Conservative Vs. Experimenting

TABLE 4.13

DISTRIBUTION OF SCORES ON FACTOR - Q_1 N = 1200

S.No.	Scores	f.	cum.f.	f.%	cum.f.%
1	12	18	1200	1.5	100.00
2	11	60	1182	5.0	98.50
3	10	126	1122	10.5	93.50
4	9	234	996	19.5	83.00
5	8	312	762	26.0	63.50
6	7	252	450	21.0	37.50
7	6	114	198	9.5	16.50
8	5	72	84	6.0	7.00
9	4	12	12	1.0	1.00

Mean = 7.995, Mean = 7.981, S.D. = 1.44, Skewness = 0.029, Kurtosis = 0.265, Standarderror of mean = 0.101

Discussion:

Above table reveals that the distribution of scores on factor ${}^{'}Q_{1}{}^{'}$ is almost, normal and symmetrical to its mean position. Since mean and median are almost same. The value of skewness is too small to be negligible. Kurtosis is in closeness to the value of mesokurtic curve. The standard error of mean also shows that the chances of variation in the mean from the other equivalent samples are very low.

Factor Q_2 : Group-dependent Vs. Self-Sufficient

 $\frac{\text{TABLE 4.14}}{\text{DISTRIBUTION OF SCORES ON FACTOR - Q}_2}$ N = 1200

S.No.	Scores	f.	cum.f.	f.%	cum.f.%
1	10	18	1200	1.50	100.00
2	9	72	1182	6.00	98.50
3	8	126	1110	10.50	92.50
4	7	240	984	20.00	82.00
5	6	288	744	24.00	62.00
6	5	228	456	19.00	38.00
7	4	132	228	11.00	19.00
8	3	66	96	5.50	8.00
9	2	30	30	2.50	2.50

Mean = 5.974,Median = 6.00, S.D. = 1.71, Skewness = 0.045, Kurtosis = 0.260,Standard error of mean = 0.120

Discussion:

Above table shows that the distribution is almost normal. Since the mean & median coincide almost to each other. The value of skewness and kurtosis do not deface the distribution so much so that the scores on this factor $'Q_2'$ may be prohibited to make the use of product-moment coefficient of correlation (r). The standard error of mean shows that there is 0.01 probability that sample's mean does miss the population's mean by more than \pm 0.309 (\pm 2.58x.12) only.

Factor Q_3 : Undisciplined Vs. Controlled

TABLE 4.15
DISTRIBUTION OF SCORES ON FACTOR - Q_3 N = 1200

S.No.	Scores	f.	cum.f.	f.%	cum.f.%
1	12	36	1200	3.0	100.00
2	11	64	1164	4.5	97.50
3	10	108	1110	9.0	92.50
4	9	162	1002	13.5	83.50
5	8	180	840	15.0	73.00
6	7	264	660	22.0	58.00
7	6	180	396	15.0	33.00
8	5	· 126	216	10.5	18.00
9	4	54	90	4.5	7.50
10	3	36	36	3.0	3.00

Mean = 7.4, Median = 7.27, S.D. = 2.064, Skewness = 0.188, Kurtosis = 0.254, Standard error of mean = 0.145

Discussion:

Above table reveals that the distribution is almost normal. Mean and median are almost same. The value of skewness and kurtosis do not deface the distribution so much from normal distribution so that the use of above scores on factor Q_3 may be prohibited for the use of r.

Standard error of mean shows that the probability is .99 that our sample mean dos not miss the population mean by more than $\pm .374$ or $(\pm 2.58x.145)$

Factor Q_4 : Relaxed Vs. Tense

TABLE 4.16

DISTRIBUTION OF SCORES ON FACTOR - Q_4 N = 1200

S.No.	Scores	f.	cum.f.	f.%	cum.f.%
1	10	18	_, 1200	1.5	. 100.00
2	9	72	1182	6.0	98.50
3	8	108	1110	9.0	92.50
4	7	234	1002	9.5	83.50
5	6	342	768	28.50	64.50
6	5	204	426	7.0	35.50
7	4	120	222	10.0	18.50
8.	3	78	102	6.5	8.50
9	2	24	24	2.0	2.00

Mean =5.97, Median = 6.008, S.D. = 1.68, Skewness = -0.053, Kurtosis = 0.258, Standard error of mean = 0.118.

Discussion:

Table No. 4.16 represents the distribution of scores on factor ${}^{'}Q_4{}^{'}$. It reveals that mean and median fall almost on the same point. The difference between two is almost negligible. Neither the value of skewness nor kurtosis is to prohibit, the use of above scores in calculating the product-moment coefficient of correlation.

The obtained value of standard error of mean shows that the probability is .01 that our sample mean (5.97) does miss the population mean by more than $\pm .304$ or $(\pm 2.58 \times 0.188)$

2. Study of Distribution of Scores of Female Students on Scholastic Achievement:

TABLE 4.17

DISTRIBUTION OF SCORES ON SCHOLASTIC ACHIEVEMENT
N=1200

S.No.	Scores	f.	cum.f.	f.%	cum.f.%		
1	450-469	2	1200	.16	100.00		
2	430-449	4	1198	.33	99.83		
3	410-429	18	1194	1.5	99.50		
4	390-409	48	1176	4.0	98.00		
5	370-389	· 78	1128	6.5	94.00		
6	350-369	252	1050	21.0	87.50		
7	330-349	324	798	27.0	66.50		
8	310-329	264	474	22.0	39.50		
9	290-309	150	210	12.5	17.50		
10	270-289	42	60	3.5	5.00		
11	250-269	18	18	1.5	1.50		

Mean= 337.5, Median = 337.25, S.D.= 31.72, Skewness = 0.024, Kurtosis = 0.275, Standard error of mean = 2.24

Cases between M± 1 S.D. (308 to 371) = 70%

Cases above M+1 S.D. = 12.5% & below M-1 S.D. = 17.5%

Discussion:

Table No. 4.17 represents the frequency distribution of scores of subjects on scholastic achievement. The distribution seems to be symmetrical. The value of skewness is very near to zero and kurtosis is almost very close to the value of mesokurtic curve. Mean and median are the same. It can be

also seen from table that 70% girls lie in between M±1 S.D. distance. Hence, it can be safely said that the distribution approaches to normal probability curve and the use of Pearson product-moment correlation may be made with the help of above scores.

The standard error of mean shows that the probability is .99 that our sample mean of 337.5 does not miss the population mean by more than ± 5.78 or $(\pm 2.58 \times 2.24)$ only.

3. The Relationship Between Personality Factors and ScholasticAchieveent:

TABLE 4.18

COEFFICIENTS OF CORRELATION BETWEEN 16 PERSONALITY FACTORS
AND SCHOLASTIC ACHIEVEMENT (N=1200)

S.No.	Factors	Name of the Factors	Coefficient of Correlation	Significance Level
1.	Α	Reserved Vs. Outgoing	0.1986	**
2.	В	Less IntelligentVs. More Intelligent	0.2163	**
3.	С	Affected by Feelings Vs. Emotionally Stable	0.0741	**
4.	E	Humble Vs. Assertive	0.0287	
5.	F	Sober Vs. Happy-go-Lucky	0.0583	
6.	G	Expedient Vs. Conscientious	0.0761	*
7.	Н	Shy Vs. Venturesome	0.1721	**
8. 💉	1	Tough minded Vs. Tender-minded	-0.0749	*
9.	L	Trusting Vs. Suspicious	0.0591	
10.	М	Practical Vs. Imaginative	0.0414	
11.	N	Forth right Vs. Shrewd	0.0312	
12.	0	Placid Vs. Apprehensive	0.0426	
13.	Q ₁	Conservative Vs. Experimenting	0.0324	
14.	Q ₂	Group-dependentVs.Self-sufficient	0.0672	*
15.	Q ₃	UndisciplinedSelf-conflictVs. Controlled	0.0692	*
16	Q ₄	Relaxed Vs. Tense	-0.0599	*

^{*} Significant at 0.05 Level.

^{**} Significant at 0.01 Level.

Significance level has been tested against null hypothesis using two tailed test from the Fisher-Yate table as reproduced by H.M. Walker and J. Lev in their "Statistical Inference", New York: Henry Holt and Co. Table XI, P-70.

Entering in columns for .05 and .01 level of significance values expected for N=1200 technically (N=1200-2=1998) after interpolation are .060 and .079 respectively.

Discussion:

Table No. 4.18 shows that number of personality characteristics of students are significantly correlated with scholastic achievement. To be precise, out of sixteen personality factors nine of them are significantly correlated. Factor A,B,C and H are significantly correlated in positive direction at .01 level, while factor G, I, Q_2,Q_3 and Q_4 are significantly correlated at .05 level. Factor G, Q_2 and Q_3 are positively related while factor I and Q₄ are negatively related. Highly positive significant factors (.01level) are reserved Vs. outgoing', 'less intelligent Vs. more intelligent', 'affected by feelings Vs. emotionally stable' ,and 'shy Vs. venturesome'. An inference can be drawn from these four highly significant correlations that the persons who are outgoing, more intelligent, emotionally stable and venturesome are likely to get good grades .It can be said that the persons who get high scores on factor A having good scholastic achievement, possess the factors of outgoing, soft hearted, participating, good natured, kindly adaptable, attentive to people and emotionally expressive. They are ready to cooperate and are soft hearted, adaptable, generous in personal relations and less afraid of criticism. They are able to remember the names of the people.

Another significant correlation is concerned with achievement and less intelligent Vs. more intelligent. The finding of the present study is confirmed by the studies of educationists and psychologists, that a large portion of scholastic achievement is determined by intelligence. On the basis of the obtained correlation (.2163) which is significant beyond .01 level, it can be inferred that those who are highly intelligent are likely to have good scholastic achievement. It means that the person, who is quick to grasp ideas, a fast learner and intelligent is likely to achieve better in the scholastic subjects.

It is also clear from table that factor C viz. 'affected by feelings Vs. emotionally stable', and factor H viz.," shy Vs. venturesome' are also significantly correlated in positive direction with scholastic achievement at .01 level. This leads us to conclude that a person who is emotionally stable and venturesome is likely to have better scholastic achievement. In other words, it can be said that rise in scores on these factors, would mean enhancement in scholastic achievement. Lower scores on these characteristics mean that a person who is more affected by feelings, shy in nature, having neurotic symptoms is likely to have poor scholastic achievement.

Factor Q_4 , viz 'relaxed vs. tense' and factor I, viz, 'tough-minded vs. tender-minded' are also negatively correlated but at .05 level. It indicates that the female students who get high scores on these factors are likely poor in scholastic attainment. In other words, it can be said that the person who are tough-minded and relaxed, practical, realistic, independent, responsible, free from anxiety and tensions are likely to get better grades on scholastic achievement.

Table no. 4.18 also shows that out of nine significant correlation there are three more positive significant correlations. The level of significance of these three obtained correlations is .05 level. These are concerned with the personality characteristics of 'expedient Vs. conscientious', 'group-dependent Vs. Self-Sufficient', and 'undisciplined Vs. controlled'. This leads us to conclude that a person who is excitable in nature, conscientious, has the factor of self discipline and is temperamentally independent, accustomed to going his own way, making decisions and taking action on his own, is likely to have better scholastic achievement. In other words, it can be said that rise in scores in these characteristics. would mean enhancement in scholastic success. Lower scores on these characteristics mean that a person who is more expedient, group dependent and undisciplined is likely to have poor scholastic achievement.

Rest of the correlation between personality factor of E, F, L, M, N, O, Q_1 factors and scholastic achievement are insignificant and so, nothing definite can be said about their relationship.

The relationship between personality characteristics and scholastic achievement shown in table no. 4.18 is not pure. Intelligence, S.E.S. and values etc. being correlated with several other personality characteristics as revealed by inter correlation matrix and also with scholastic achievement to the extent of .01 level of significance, affect this relationship. The component of variability due to intelligence, S.E.S. and values etc should, therefore, to be partialled out, leaving correlations between personality factors and scholastic achievement unaffected by variability in intelligence, S.E.S. and values etc. The residual correlations may be considered roughly indicative of true relationship, that might be existing between personality factors and scholastic achievement.

Even these residual correlations may not be pure, being affected by variability in various other uncontrolled factors. Variables like environment, condition of work, study habits etc. and also the component of un-reliability in test-scores may be affecting these residual correlations. However, the major component of variability carried by intelligence has been taken out. The largest portion of variability in academic achievement is attributed to the factor of intelligence and S.E.S. Taking this

out, the remaining may be roughly, attributed to the contribution of personality factors.

4. Relationship Between Personality Factors and Academic Achievement After Partialling out Intelligence:

TABLE 4.19

COEFFICIENT OF CORRELATION BETWEEN 16 PERSONALITY TRAITS AND SCHOLASTIC ACHIEVEMENT AFTER PARTIALLING OUT INTELLIGENCE (N=1200)

	(14 1200)							
S.No.	Factors	Name of the Factors	Coefficient of Correlation	Significance Level				
1.	А	Reserved Vs.Outgoing	0.04629					
2.	В	Less IntelligentVs. More Intelligent	0.04270					
3.	С	Affected by Feelings Vs. Emotionally Stable	00.03427					
4.	E	Humble Vs. Assertive	0.03107					
5.	F	Sober Vs. Happy-go-Lucky	0.01266					
6.	G	Expedient Vs.Conscientious	0.01342					
7.	Н	Shy Vs. Venturesome	0.01196					
8.	1	Tough minded Vs. Tender-minded	-0.00978					
9.	L	Trusting Vs. Suspicious	0.05269					
10.	М	Practical Vs. Imaginative	0.03139					
11.	N	Forth right Vs. Shrewd	0.04392					
12.	0	Placid Vs. Apprehensive	0.01295					
13.	Q	Conservative Vs. Experimenting	0.02532					
14.	Q_2	Group-dependentVs.Self-sufficient	0.04952					
15.	Q_3	UndisciplinedSelf-conflictVs. Controlled	-0.07956	**				
16	Q ₄	Relaxed Vs. Tense	·					

** Significant at .01 level

Significance level has been tested against null hypothesis using two tailed test from the Fisher-yate table as reproduced by H.M.Walker and J. Lev in their "Statistical Inference", New

York: Henry Hold and Co. Table XI, P-70.

Entering in columns for .05 and .01 level of significance values expected for N=1200 technically (N=1200-2=1998) after interpolation are .060 and .079 respectively.

Discussion:

It may be observed in table No. 4.19 that when intelligence is partialled out, the relationship between personality traits and academic achievement has altogether altered from what it was when intelligence was not controlled. Out of the sixteen partialled correlation only one is found significant at .01 level and it is in the negative direction. Factor Q_4 is concerned with the personality trait of Relaxed - Tense. This negative correlation indicates that low anxiety tends to be associated with better grades. In other words, it can be said that a person who suffers from low anxiety or who feels relaxed is likely to get better grades than those who are anxiety-ridden. Cattell and Scheir have mentioned in the Hand Book for IPAT ANXIETY SCALE QUESTIONNAIRE that "achievement at any given educational level, as measured by goodness of school learning and grades, tends to bear slightly negative relationship with anxiety", Spielberger and Katzenmeyer have also proved that anxiety is negatively correlated with academic achievement. Both of them assessed the relationship between the M.A.S. and grades for a sample of models divided into high, medium and low ability grouping. M.A.S. had low (-.18) negative correlation with grade point average for subjects in the medium ability group, but uncorrelated with grade for other ability groups. The findings of the present study are also confirmed the study of Reese, who studied fourth and sixth grade males and females and found that anxiety, as measured by C.M.A. Scale, was negatively related to scores on an achievement test in mathematics.

Rest of the correlations are not significant and thus nothing definite can be said whether any of these personality characteristics excepting Q_4 contribute to the academic achievement or not.

One interesting phenomenon, which has emerged out of computing this partial correlation is that all the correlations which were significant previously, turned out to be insignificant. It can be concluded from this that true relationship of personality with academic achievement, is, perhaps, tied with the level of intelligence, and, perhaps, factors of personality operated in different ways at different levels of intelligence as determinants of academic success.

5. Relationship Between Personality Traits and Scholastic Achievement After Partialling out S.E.S.:

TABLE 4.20

COEFFICIENTS OF PARTIAL CORRELATION BETWEEN PERSONALITY
TRAITS AND ACADEMIC ACHIEVEMENT PARTIALLED OUT S.E.S.:

S.No.	Factors	Name of the Factors	Coefficient of Correlation	Significance Level			
1.	Α	Reserved Vs.Outgoing	0.09986	**			
2.	В	Less IntelligentVs. More Intelligent	0.02043	**			
3.	С	Affected by Feelings Vs. Emotionally Stable	0.07621	*			
4.	E	Humble Vs. Assertive	0.02615				
5.	F	Sober Vs. Happy-go-Lucky	0.04932				
6.	G	Expedient Vs.Conscientious	0.05216				
7.	Н	Shy Vs. Venturesome	0.02912				
8.		Tough minded Vs. Tender-minded	-0.07516	*			
9.	L	Trusting Vs. Suspicious	0-05427				
10.	М	Practical Vs. Imaginative	0-04092				
11.	N	Forth right Vs. Shrewd	0-02192				
12.	0	Placid Vs. Apprehensive	0-03257				
13.	Q ₁	Conservative Vs. Experimenting	0.02142				
14.	Q ₂	Group-dependentVs.Self-sufficient	0.05163				
15.	Q ₃	UndisciplinedSelf-conflictVs. Controlled	0.00394				
16	Q ₄	Relaxed Vs. Tense	_0.10489	**			

^{**} Significant at .01 level

Significance level has been tested against null hypothesis using two tailed test from the Fisher-Yate table as reproduced by H.M. Walker and J. Lev in their" Statistical Inference", New York: Henry Holt and Co. Table XI, P-70.

^{*} Significant at .05 level

Entering in columns for .05 and .01 level of significance values expected for N=1200 technically (N=1200-2=1998) after interpolation are .060 and .079 respectively.

Discussion:

Table No. 4.20 shows that a number of personality traits are significantly correlated with academic achievement. They are "reserve-outgoing" "less intelligent-more intelligent", "tough minded-tender minded", "affected by feeling-emotionally stable" and "relaxed-tense". Out of these "reserved-outgoing", "less intelligent-more intelligent" and "relaxed-tense" are significant at .01 level, and "affected by feeling-emotionally stable", and "tough minded-tender minded" are significant .05 level. The analysis shows that if S.E.S. is controlled, the personality trait of "out-going" and "more intelligent" play a highly significant role in contributing to academic achievement.

Again, from the table we find that academic achievement is perhaps adversely affected by the personality trait of "relaxed-tense". The correlation obtained between this trait and academic achievement is -0.10489. That means that feelings of frustration, excitedness, restlessness, impatience, and fatigue stand in the way of good academic achievement. On the other hand it can also be said that the tendency of feeling relaxed and satisfaction may contribute to better academic achievement as indicated by partial r (-0.10489). It can also be inferred from this partial "r" that true relationship of personality with

academic achievement is also related with S.E.S., and perhaps this characteristic of personality operates in different ways at different levels of socio-economic status. In the case of this personality trait partialling out of S.E.S. has increased the value of 'r'.

The remaining two correlations, which are concerned with "tough mindedness-tender mindedness" and the trait of "affected by feelings-emotionally stable" are significant at .05 level. One thing should be noted in this connection that when S.E.S. is partialled out, the correlation obtained between personality traits of 'tough minded-tender minded' is increased at the third decimal place. In the same way the correlation is also increased between the traits of affected by "feelings-emotionally stable" and academic achievement at the second decimal place. It can be inferred that S.E.S. is tied with these two personality characteristics, which stand in the way of good academic-achievement.

It may be concluded that the differences in the personality characteristics of the individual interact with characteristics of social environment in affecting academic performance. Thus certain personality characteristics may lead to high achievement in some social settings but not in others and some kind of social environment may be conducive to high academic achievement for certain types of personality but not for others.

6. Relationship between Personality Factors and Academic Achievement, Partialling out Intelligence and S.E.S.:

TABLE 4.21

COEFFICIENTS OF CORRELATION BETWEEN PERSONALITY FACTORS
AND ACADEMIC ACHIEVEMENT, S.E.S. AND INTELLIGENCE
PARTIALLED OUT (N=1200)

S.No.	Factors	Name of the Factors	Coefficient of Correlation	Significance Level
1.	A	Reserved Vs.Outgoing	0.03554	Level
2.	В	Less IntelligentVs. More Intelligent	0.03576	
3.	С	Affected by Feelings Vs. Emotionally Stable	_0.06887	*
4.	E	Humble Vs. Assertive	0.00571	
5.	F	Sober Vs. Happy-go-Lucky	0.00231	
6.	G	Expedient Vs.Conscientious	0.01955	
7.	Н	Shy Vs. Venturesome	0.02958	
8.	1	Tough minded Vs. Tender-minded	0.05721	
9.	L	Trusting Vs. Suspicious	0.01089	
10.	М	Practical Vs. Imaginative	0.02618	
11.	N	Forth right Vs. Shrewd	0.04657	
12.	0	Placid Vs. Apprehensive	0.09762	
13.	Q ₁	Conservative Vs. Experimenting	0.05241	
14.	Q ₂	Group-dependentVs.Self-sufficient	0.04324	
15.	Q ₃	UndisciplinedSelf-conflictVs. Controlled	0.06023	
16	Q ₄	Relaxed Vs. Tense	-0.06974	**

^{*} Significant at .05 level.

Significance level has been tested against null hypothesis using two tailed test from the Fisher-Yate table as reproduced by H.M. Walker and J. Lev in their' Statistical Inference", New York: Henry Holt and Co. Table XI, P-70.

^{**} Significant at .01 level.

Entering in columns for .05 and .01 level of significance values expected for N=1200 technically (N=1200-2=1998) after interpolation are .060 and .079 respectively.

Discussion:

The correlations obtained between personality traits and academic achievement after partialling out both intelligence and S.E.S. reveal that out of 16 partial correlation only one is significant at .01 level and another at .05 level. They are between academic achievement and the traits of "relaxed-tense" and "affected by feelings-emotionally stable". The obtained correlations are in the negative direction which indicates that higher the scores on the characteristics of "relaxed-tense" the poorer will be the academic achievement. Conversely, it can be said that as long as the individual is free anxiety he stands better chances of securing good grades in academic studies.

Another correlation which is significant at .05 level indicates that the trait of "affected by feelings-emotionally stable", is related to academic achievement. As the obtained correlation is negative, it can be inferred that a person, who gets low scores on this trait is likely to be better in academic achievement.

One interesting thing has emerged out of this analysis. After partialling out the effect of intelligence and S.E.S., the value of 'r' has increased. (Relaxed-Tense). Previously when achievement was calculated, when S.E.S. and intelligence were allowed to vary, the obtained correlation was -.0599 which was touching the lower limit of .05 level of significance. Now it has been increased to .01 level of significance.

It can be concluded that the true relationship of personality with academic achievement is perhaps closely tied with the level of intelligence and S.E.S., and factors of personality operate in different ways at different levels of intelligence and S.E.S. as determinants of academic success.

PART-B STUDY OF VALUES AND SCHOLASTIC ACHIEVEMENT :

1. Study of Distribution of Scores on Values of Girls with the Help of Frequency Distribution:

TABLE 4.22

FREQUENCY DISTRIBUTION OF SCORES ON PERSONAL VALUE (P)

(N=1200)

S.No.	Scores	f.	cum.f.	f.%	cum.f.%
1	35-39	20	1200	1.67	100.00
2	30-34	80	1180	6.66	98.33
3	25-29	260	1100	21.67	91.67
4	20-24	580	840	48.33	70.00
5	15-19	240	260	20.00	21.67
6	10-14	20	20	1.67	1.67

Mean = 21.25, Median = 21.70, S.D. = 5.54 Skewness = 0.22, Kurtosis = 0.272, Standard Error of Mean = 0.70

Discussion:

Table No. 4.22 representing the distribution of scores of female subjects on personal value scale shows that the distribution is almost symmetrical. From table, it can also be seen that mean and median do not widely differ from each other. The value of skewness is insignificant since it is not very far away from Zero. The value of kurtosis is also very much close to the meso-kurtic curve. The obtained value of standard error of mean shows that the probability is 0.99 that our sample mean does not miss the population mean by more than ± 1.806 .

TABLE 4.23

FREQUENCY DISTRIBUTION OF SCORES ON RELIGIOUS VALUE (R)

(N= 1200)

S.No.	Scores	f.	cum.f.	f.%	cum.f.%
1 .	35-39	160	1200	3.33	100.00
2	30-34	360	1040	30.00	86.67
3	25-29	440	680	36.67	56.67
4	20-24	200	240	16.67	20.00
5	15-19	40	40	3.33	3.33

Mean = 28.67, Median = 28.59, S.D. = 6.35, Skewness = 0.04, Kurtosis = 0.296, Standard error of mean = 0.82

Discussion:

Table no. 4.23 represents the distribution of scores of female subjects on religious value scale. The distribution reveals almost to be symmetrical. The mean and median almost concide with each other. The value of skewness is very close to zero.

The distribution is slightly platykurtic, but does not deviate so much that it can prohibit the use of product-moment method. Hence, the above distribution is almost normal.

Low standard error of mean shows that the sample mean is fairly close to population mean.

TABLE 4.24

FREQUENCY DISTRIBUTION OF SCORES ON EDUCATIONAL VALUE(E₁)

(N=1200)

S.No.	Scores	f.	cum.f.	f.%	cum.f.%
1	45-46	120	1200	10.00	100.00
2	40-44	320	1080	26.66	90.00
3	35-39	440	760	36.67	63.33
4	30-34	240	320	20.00	26.67
5	25-29	80	80	16.67	6.67

Mean = 37.66, Median = 37.68, S.D. = 5.25, Skewness = -0.01, Kurtosis = 0.238, Standard error of mean = 0.68

Discussion:

Table no. 4.24 represent the performances of educational value of female subjects on value scale. The distribution appears to be normal. The evidences of normality being: (1) Mean and median are the same, (2) The value of skewness is almost zero,(3) The distribution is slightly leptokurtic but the value of kurtosis does not much deviate from the mesokurtic curve.

The value of standard error of mean indicates that the sample mean is very much close to population mean.

TABLE 4.25

FREQUENCY DISTRIBUTION OF SCORES ON MATERIALISTIC VALUE (M₁)

(N=1200)

S.No.	Scores	f.	cum.f.	cum.f.%		
1	30-34	120	1200	10.00	100.00	
2	25-29	320	1080	26.67	90.00	
3	20-24	440	760	36.66	63.33	
4	15-19	240	320	20.00	26.67	
5	10-14	80	80	6.67	6.67	

Mean = 23.00,Median = 22.84, S.D. = 4.9, Skewness = 0.098, Kurtosis = 0.283, Standard error of mean = 0.63

Discussion:

Table No. 4.25 indicates that the frequency distribution representing the performances of scores of female subjects on materialistic value scale is almost symmetrical. It may be also observed from table that mean and median does not differ too much from each other. The value of skewness is very close to zero. The value of kurtosis is very near to the mesokurtic curve. Hence, the distribution is normal. The obtained value of standard error of mean shows that the probability is .01 that our sample mean does miss the population mean by more than \pm 1.62

TABLE 4.26
FREQUENCY DISTRIBUTION OF SCORES ON SOCIAL VALUE (S)
(N=1200)

S.No.	Scores	f.	cum.f.	f.%	cum.f.%
1	45-49	40	1200	3.33	100.00
2	40-44	0	1160	0.00	96.66
3	35-39	560	1160	46.67	96.66
4	30-34	520	600	43.33	50.00
5	25.29	80	, 80	6.67	6.67

Mean = 34.5, Median = 34.5, S.D. = 3.8, Skewness = 0, Kurtosis = 0.282, Standard error of mean = 0.49

Discussion:

The above frequency distribution represents the distribution of scores of female subjects on social value scale. It reveals that the distribution is symmetrical. The value of skewness is zero. The mean and median are the same. The peakedness of the distribution is also very close to a mesokurtic curve. Hence, the above distribution almost tends to be normal.

The standard error of mean shows that the probability is .01 that our sample mean does miss the population mean by more than \pm 1.26.

TABLE 4.27 FREQUENCY DISTRIBUTION OF SCORES ON HUMANISTIC VALUE (${\rm H_1}$) (N=1200)

S.No.	Scores	f.	f. cum.f. f.%		cum.f.%
1	40-44	240	1200	20.00	100.00
2	35-39	480	960	40.00	80.00
3	30-34	440	480	36.67	40.00
4	25-29	40	40	3.33	3.33

Mean = 35.84, Median = 35.75,S.D. = 3.8, Skewness = 0.06, Kurtosis = 0.218,Standard error of mean = 0.49

Discussion:

Table no. 4.27 representing the distribution of scores of female subjects on humanistic value scale indicates that the distribution is normal, since the distribution is almost symmetrical. Mean and median are almost same. The value of skewness is not significant and is very close to zero. The distribution is slightly leptokurtic but it does not much deviate from the characteristics of mesokurtic curve.

The low standard error of mean shows that the sample mean is very much close to the population mean.

ii- Relationship Between Values and Academic Achievement:

TABLE 4.28

COEFFICIENT OF CORRELATION BETWEEN VALUES AND

ACADEMIC ACHIEVEMENT

(N=1200)

S.No.	Name of the Values		Coefficients of Correlation	Level of Significance		
1	Personal	(P)	0.05958			
2	Religious	(R)	_0.22456	**		
3.	Educational	(E₁)	0.08979	*		
4.	Materialistic	(M_1)	_0.07835	*		
5.	Social	(S)	0.01917	**		
6.	Humanistic	(H₁)	0.03494			

^{**}Significant at .01 level.

Discussion:

Tale no. 4.28 represent coefficients of correlation between six values and academic achievement for female subjects. Four values out of six are significantly correlated with attitudes. They are religious, educational, materialistic and social. It can be inferred that the subjects who are more religious and materialistic get low scores. Since, these two values are negatively correlated. On the other hand, educational and social values are positively related with attitudes. It can be said that female subjects who get high scores on educational and social value scale, are good in attainment. The religious and social values are significant at .01 level while the educational and materialistic values are significant at .05 level. In brief, it can

^{*} Significant at .05 level.

be said that more educated and social female subjects are good in academic attainment., while more religious and materialistic female subjects do not possess good academic records. Above these correlations clearly indicate that above four values contribute to high school girls academic attainment.

Rest of the correlations between values $(P\&H_1)$ and achievement female students are in significant, so nothing definite can be said about their relationship.

iii- Relationship between Values and Scholastic Achievement Partialling Out Intelligence:

TABLE: 4.29

COEFFICIENT OF PARTIAL CORRELATION BETWEEN VALUES AND ACADEMIC ACHIEVEMENT INTELLIGENCE BEING PARTIALLED OUT.

(N=1200)

S.No.	Name of the Values	Name of the Values						
1	Personal	(P)	0.04923					
2	Religious	(R)	_0.19324	**				
3.	Educational	(E ₁)	0.07965	**				
4.	Materialistic	(M ₁)	_0.06725	*				
5.	Social	(S)	0.12032	**				
6.	Humanistic	(H ₁)	_0.02112					

^{**}Significant at .01 level.

^{*} Significant at .05 level.

Discussion:

It may be observed from table no. 4.29 that some of the coefficients of partial correlation between values and attainment of female subjects, when intelligence is partialled out are significant four values out of six are significantly correlated with academic achievement. Religious and social values are significant at .01 level, while educational and materialistic values are significant at .05 level. Educational and social values are positively correlated with attainment. It can be infeired that all female subjects, who are educated and social, possess good academic record.

On the other hand, religious and materialistic values have negative association with academic achievement. It can be said that the females who are more religious and materialistic are poor in academic attainment.

Inference can be drawn that true relationship between values and scholastic achievement change is, perhaps tied with the personality factors; personality factors may operate concurrently with values as a mediating factor to accentuate its relation with academic achievement.

iv- Relationship between Values and Academic Achievement, S.E.S. Partialled Out:

TABLE 4.30

COEFFICIENTS OF PARTIAL CORRELATION BETWEEN VALUES AND SCHOLASTIC ACHIEVEMENT, S.E.S. BEING PARTIALLED OUT (N=1200)

S.No.	Name of the Values	Name of the Values				
1	Personal	(P)	0.04234			
2	Religious	(R)	_0.18324	**		
3.	Educational	(E ₁)	0.07629	*		
4.	Materialistic	(M_1)	_0.06421	*		
5.	Social	(S)	0.12351	**		
6.	Humanistic	(H ₁)	0.02413			

^{**} Significant at .01 level.

Discussion:

Table No. 4.30 represent the coefficient of partial correlation between values and achievement of female subjects, when S.E.S. is being partialled out. Though, partialling out the S.E.S. does not affect the kind and direction of the correlations of values with achievement from what it was when S.E.S. was not controlled, yet it has affected its magnitude. So, it can be said again that the female subjects who are more educated and more social tend to get good academic record, while on the other hand the female subjects who are more religious and money minded, have poor academic attainment.

^{*} Significant at .05 level.

v- Relationship between Value and Academic Achievement Partialling Out Intelligence and S.E.S.

TABLE 4.31

COEFFICIENT OF PARTIAL CORRELATION BETWEEN VALUES AND ACADEMIC ACHIEVEMENT INTELLIGENCE AND S.E.S. BEING PARTIALLED OUT.

(N=1200)

S.No.	Name of the Value	S	Coefficients of Correlation	Level of Significance
1	Personal	(P)	0.03216	
2	Religious	(R)	_0.06914	*
3.	Educational	(E ₁)	0.06621	*
4.	Materialistic	(M_1)	_0.06123	*
5.	Social	(S)	0.07324	*
6.	Humanistic	(H ₁)	0.02117	

^{**} Significant at .01 level

Discussion:

Table no. 4.31 indicates the coefficients of partial correlation between values and academic achievement of female subjects, when intelligence and S.E.S. is being controlled. Partial analysis have altered the level of correlations of values with attainment as it was in table no. 4.30. Hence, the results of the previous table are again confirmed that the females who are more educated and social tend to get good academic record while the females who are more religious and materialistic do not get good scores.

^{*}Significant at .05 level.

PART-C

PREDICTION OF ACADEMIC ACHIEVEMENT (D.V.) BY COMBINING PERSONALITY FACTOR AND VALUES (I.V.S)

In the foregoing pages, the investigator tried to predict academic achievement on the basis of single isolated values but the crucial point is that the use of isolated personality traits and other variables may not always be fruitful. The combined effect of all the traits and values should also be assessed at the time of prediction scholastic achievement. The fact can not be ignored that at the time of predicting achievement isolated factors do not operate. Several other factors also work simultaneously in contributing to achievement.

As a matter of fact the independent variables (personality traits and values) do not react in isolation. All of them, either, contribute in enhancing academic achievement not in isolation, but in combination with other variables or they may be showing a decreasing trend in contributing achievement by interaction of each variable. These things led the investigator to search the maximum possibilities of prediction on the basis of all personality traits and values.

The Coefficients of partial regression, standard error, beta coefficients, corresponding variance ratio of each coefficient, coefficient of corrected multiple correlation, fiduciary limits at .05 and .01 level, coefficient of alienation(K), coefficient of forecasting efficiency(E) and coefficient of determination have been calculated at the Computer Centre of "Council for social Development" 53 Lodi Estate, New Delhi, and presented in table No. 4.32.

WITH TWENTY-TWO INDEPENDENT VARIABLES COEFFICIENTS OF PAKTIAL REGILESOISIN, PERMINAL

Dependent Variables: Academic Achievement. Degree of Freedom (1200-23) = 1177, N= 1200

Coefficient of Forecasting Efficiency	(E)											41.93%											
Coefficient of Alienation	(X)		0.5807																				
Fiduciary Limits of .05 & .01 level											0 764 40	0.866 at	.05 level	0.744 to 0.883 at	0.01 level								
Coefficient of Determination	(R^2_c)											0.66270								,			
Corrected Multiple Correlation	(R _C)											0.81406											
Square of Multiple Correlation	(R ²)											0.70410											
Coefficient of Multiple Correlation	(R)											0.83911											
Variance Ratio	(F)	2.779**	0.476	960.0	1.142	0.000	9.764**	0.226	0.015	3.616**	1.033	0.277	0.426	8.506**	8.340**	0.770	0.035	0.022	0.609	0.007	0.013	0.034	0.042
Beta Coefficients	(B)	0.20150	0.08394	-0.04429	-0.12365	-0.00174	0.37631	0.06758	0.01342	-0.22088	-0.10498	-0.57680	0.08798	0.30758	0.32028	0.11182	-0.02671	-0.59120	0.38077	0.28102	0.05436	-0.62160	-0.08003
Standard Error of Each Variables		0.04389	0.03446	0.03275	0.03722	0.03926	0.04428	0.04126	0.03644	0.04242	0.03801	0.04027	0.03276	0.03462	0.03663	0.04190	0.03233	0.07907	0.07392	0.07014	0.07521	0.09276	0.08633
Coefficients of Partial Regression	(Q)	0.73433	0.37583	-0.10071	-0.39780	-0.50320	0.13836	0.19554	0.44496	-0.80659	-0.38643	-0.21189	0.21377	0.10067	0.10548	0.36760	-0.60216	-0.11831	0.52745	0.60537	0.86596	-0.17037	-0.17782
Name of Independent Variables		Personality Factors (A)	Personality Factors (B)	Personality Factors (C)	Personality Factors (E)	Personality Factors (F)	Personality Factors (G)	Personality Factors (H)	Personality Factors (I)	Personality Factors (L)	Personality Factors (M)	Personality Factors (N)	Personality Factors (O)	Personality Factors (Q ₁)	Personality Factors (Q ₂)	Personality Factors (Q ₃)	Personality Factors (Q₄)	Personal Value (P)	Religions Value (R)	Educational Value (E ₁)	Materialistic Value (M ₁)	Social Value (S)	Humanistic Value (H ₁)
S.No		-	2	က	4	2	9	7	8	6	9	1	12	13	14	15	16	17	18	19	20	21	22

Constant Value = 0.64176

** Significance level has been tested against null hypothesis using F test from Table F as reproduced by H.E. Garrett in his, "Statistics in Psychology and Education" Bombay, sixth Edition, 1971,pp. 463 to 466. F value for .05 level of Significance is 1.29 and for .01 level is 1.43 for degrees of freedom 22 for Greater mean square and 1177 for Smaller mean square.

Discussion:

It is clear from table no. 4.32 that the partial regression coefficients of personality traits of A,G,L,Q_1 and Q_2 of female subjects are statistically significant at .01 level as their 'F' values indicate while those of personality traits B, C, E, F, H, I,M,N,O,Q_3,Q_4 and values P, R, E_1,M_1,S,H_1 of male subjects are not significant.

The value of corrected R^2c for inflation (coefficient of determination) being 0.6627, it can be inferred that about 66% of variance of achievement of female subjects is associated with variability in twenty two independent variables taken together. Rest 34% remains unexplored. Moreover to this fiduciary limits at .01 level also indicate that the multiple coefficient of correlation is significant at .01 level. The value of multiple 'R' lies between the range of fiduciary limits that is from 0.74 to 0.88.

The Coefficient of alienation and forecasting efficiency indicate that all twenty-two independent variables do not contribute jointly more than 41.93% in predicting academic achievement of girls students, Now if we want to predict the achievement of any individual in score form, the entire regression equation can be read as:

$$Y = a+b_1 X_1 A + b_2 X_2 B + \dots + b_{22} X_{22} H_1$$

$$Y = 0.64176 + .7343 X_1 A + .3758 X_2 B - .1007 X_3 C$$

$$\begin{array}{l} -.3978 \ \, \mathrm{X_4} \ \, \mathrm{E} \, -.5032 \ \, \mathrm{X_5} \ \, \mathrm{F} \, + .1383 \ \, \mathrm{X_6} \ \, \mathrm{G} \\ \\ + \ \, .1955 \ \, \mathrm{X_7} \ \, \mathrm{H} \, + .4449 \ \, \mathrm{X_8} \ \, \mathrm{I} \, - .8065 \mathrm{X_9} \ \, \mathrm{L} \\ \\ - \ \, .3864 \ \, \mathrm{X_{10}} \ \, \mathrm{M} \, - \ \, .2118 \ \, \mathrm{X_{11}} \ \, \mathrm{N} \, + .2137 \ \, \mathrm{X_{12}} \\ \\ + \ \, .1006 \ \, \mathrm{X_{13}} \ \, \mathrm{Q_1} \, + \, .1654 \ \, \mathrm{X_{14}} \mathrm{Q_2} \, + \, .3676 \ \, \mathrm{X_{15}} \ \, \mathrm{Q_3} \\ \\ - \ \, .6021 \ \, \mathrm{X_{16}} \mathrm{Q_4} \, - \, .1183 \ \, \mathrm{X_{17}} \mathrm{P} \, + \, .5274 \ \, \mathrm{X_{18}} \ \, \mathrm{R} \\ \\ + \ \, .6021 \mathrm{X_{19}} \mathrm{E_1} \, + \, .8659 \ \, \mathrm{X_{20}} \mathrm{M_1} \, - \, .1703 \ \, \mathrm{X_{21}} \mathrm{S} \, \\ \\ - .1778 \ \, \mathrm{X_{22}} \mathrm{H_1} \end{array}$$

To interpret the above equation we may say that for every unit increase in X_1A , X_2B , X_6G , X_7H , X_8I , $X_{12}O$, X_{13} Q_1 , X_{14} Q_2 , $X_{15}Q_3$, $X_{18}R$, $X_{19}E$, $X_{20}M_1$, Y increased by .7343, .3758, .1383, .1955, .4449, .2137, .1006, .1054, .3676, .5274, .6021, .8659 units respectively - and for every unit increase in X_3 C, X_4 E, X_5 F, X_9 L, $X_{10}M$, X_{11} N, X_{16} Q_4 , X_{17} P, X_{21} S, X_{22} H_1 , Y decreases by .1007, .3978, .5032, .8065, .3864, .2118, .6021, .1183, .1703, .1778 units respectively.

 tests have been expressed in standard scores (all means 0.00 and σ 's = 1.00). Hence, the multiple regression equation in terms of the beta coefficients is given as below:

$$Z = .2015 \ Z_{1}A + .0839 \ Z_{2}B - .0442 \ Z_{3}C - .1236 \ Z_{4}E$$

$$-.0017 \ Z_{5}F + .3763 \ Z_{6}G + .0675 \ Z_{7} \ H + .0134 \ Z_{8}I$$

$$- .2208 \ Z_{9}L - .1049 \ Z_{10}M - .0575 \ Z_{11} \ N + .0879 \ Z_{12}O$$

$$+ .3075 \ Z_{13}Q_{1} + .3202 \ Z_{14} \ Q_{2} + .1118 \ Z_{15}Q_{3} - .0267 \ Z_{16}Q_{4}$$

$$- .0591 \ Z_{17} \ P + .3807 \ Z_{18}R + .281Z_{19}E_{1} + .0543 \ Z_{20}M_{1}$$

$$- .0621 \ Z_{21}S - .0800 \ Z_{22}H_{1}$$

Beta coefficient give the independent contribution of all twenty-two independent variables viz. sixteen personality traits A,B,C, E,F, G, H, I,L, M, N, O, Q_1 , Q_2 , Q_3 and Q_4 and all six values P, R, E_1 , M_1 , S & H_1 in predicting the academic achievement of girls.

The comparison between these two above regression equations in different form clearly indicates that the multiple regression equation in score form gives the weights to be attached to the scores in X_1, X_2, \ldots and X_{22} . These different weights tell us the amount by which scores in X_1, X_2, \ldots and X_{22} must be multiplied in order to give the "best" prediction of Y. But these weights do not give us the relative importance of

values and personality traits in determining the academic achievement. This information is given by the beta weights. For example, it is of interest to note, that, while the actual score weights attached to factor A & B are as 2:1 approximately (.7343 to .3758), the independent contribution of personality factors A & B are in the ratio .2015 to .0839 or as 5:2 approximately. In any other example, it may also happened that this ratio 2:1 (weights attached in score form to two variables) may be reversed in the case of regression equation in the form of beta coefficients.

The conclusion, therefore is that only five personality factors A, G, L Q_1 & Q_2 are significantly correlated with attitudes. These factors have significant roles for determining the academic achievement of X Class girls. Rest personality factors and values have no significant association with achievement and hence nothing definite can be said about their contribution in predicting academic attainment.

PART-D

COMPARATIVE STUDY OF THE PERSONALITY TRAITS OF HIGH AND LOW ACADEMIC ACHIEVERS:

Comparative Study of Personality Factors of High and Low Scholastic Achievers with the Help of Critical Ratio.

Before comparing the two group of high and low scholastic achievers, it would not be out of the point to define the term high and low scholastic achievers. The term high achievers for the purposes of the present study refers to subjects earning a composite average score on scholastic achievement test which is above mean + 1σ for the score distribution for scholastic achievement. The term low scholastic achievers on the other hand refers to those whose composite average scholastic achievement score were below mean_ 10 for the distribution of scholastic achievement scores. In other words, it canbe said that the students who obtained above than 65% of the marks have been named as high achievers and those who scored below 45% of the marks have been placed in low achievers category.

The table No. 4.33 gives the data obtained by high and low achievers on various personality factors studied with the help of personality Questionnaire.

Comparative Study of the Personality Factors of High and Low Achievers:

TABLE 4.33

COMPARISON WITH MEAN SCORES ON PERSONALITY FACTORS BETWEEN HIGH & LOW ACHIEVERS OF FEMALE STUDENTS

HIGH ACHIEVERS (N=150) LOW ACHIEVERS (N=210)

S.No.	Name of the Personality Factors	Low Act	nievers	High Ac	C.R.		
0.110.	realise of the resonanty ractors		Mean	S.D.	Mean	S.D.	Value
1	Reserved Vs. Outgoing	(A)	6.910	1.570	8.410	1.110	2.340 **
2	Less IntelligentVs. More Intelligent	(B)	3.300	1.180	5.400	1.410	3.180 **
3	Affected by Feelings Vs. Emotionally Stable	(C)	7.500	1.560	7.570	2.416	0.106
4	Humble Vs. Assertive	(E)	4.100	1.757	4.570	1.990	0.610
5	Sober Vs. Happy-go-Lucky	(F)	8.100	0.540	7.710	1.014	1.220
6	Expedient Vs. Conscientious	(G)	9.700	1.004	10.930	0.870	3.129 **
7	Shy Vs. Venturesome	(H)	5.500	1.910	7.430	1.039	2.906 **
8	Tough minded Vs. Tender-minded	(I)	7.200	1.660	5.500	1.760	2.407 **
9	Trusting Vs. Suspicious	(L)	5.400	2.009	5.070	1.620	0.428
10	Practical Vs. Imaginative	(M)	7.400	2.009	7.000	3.069	0.038
11	Forth right Vs. Shrewd	(N)	5.800	2.990	6.500	1.670	0.668
12	Placid Vs. Apprehensive	(0)	8.400	1.959	8.210	1.676	0.250
13	Conservative Vs. Experimenting	(Q ₁)	7.300	2.195	10.000	1.360	3.448 **
14	Group-dependentVs.Self-sufficient	(Q ₂)	4.200	1.469	5.930	1.270	3.008 **
15	UndisciplinedSelf-conflictVs. Controlled	(Q ₃)	6.200	2.740	8.170	1.288	2.118 **
16	Relaxed Vs. Tense	(Q ₄)	7.600	2.640	4.860	1.345	3.014 **

** Significant at 0.01 Level.

Significance level has been tested against null hypothesis using two tailed test from table D of Henry-E. Garrett in his book named "Statistics in Psychology and Education", Vakils Feffer and Simon Private Ltd., 18 Ballard Estate, Bombay-1, India P.461. Entering in Columns for 0.05 and 0.01 level of [145]

significance CR value expected for df.(150+210-2) = 358 after interpolation are 1.29 and 1.43 respectively.

Discussion:

Above table 4.33 gives a comparative study of the performances of high achievers and low achievers female students on Cattell 16 P.F. Questionnaire in terms of means and standard deviations. Table represents that out of the sixteen C.R. ratios, calculated to study the significance of differences of means, nine are significant and seven are insignificant. All the significant CR ratios, are significant at .01 level of significance. The significant CR ratios are for the factors reserved Vs. outgoing, less intelligent Vs. more intelligent, expedient Vs. conscientious, shy Vs. venturesome, tough-minded Vs. tender-minded, conservative Vs. experimenting, group dependent Vs. self-sufficient, undisciplined Vs. controlled and relaxed Vs. tense. Here too, the means of low achievers are comparatively more on the significant factors of tough-minded tender-minded, relaxed-tense whereas on the rest seven significant factors, their means are lower as compared to the means of the high achievers. From this we draw the following inferences:

1. Low achievers female students are reserved, less intelligent, expedient, shy, conservative, group dependent and undisciplined where as high achievers are outgoing, more intelligent, conscientious, venturesome, experimenting, self sufficient and controlled.

- 2. Low achievers are tender-minded and tense whereas high achievers are tough-minded and relaxed.
- 3. On the factors affected by feelings emotionally stable humble-assertive, sober-happy-go-lucky, trusting-suspicious, practical-imaginative, forthright-shrewd and placid-apprehensive, the two groups represent more or less the same performances since they show the insignificant differences among their means. The apparent differences among the means of the two groups are due to the sampling fluctuations only and hence, there is no real or true difference between the population means.

2. Comparative Study of Values of High & Low Achievers

TABLE 4.34

GAINS IN SCORES ON VALUES BY THE HIGH AND LOW ACHIEVERS:

HIGH ACHIEVERS (N = 150)

LOW ACHIEVERS (N = 210)

CALL Name of the Volume			Low Achievers		High Ac	C.R.	
S.No.	Name of the Values		Mean	S.D.	Mean	S.D.	Value
1	Personal Value	(P)	22.61	4.49	18.61	3.00	1.18
2	Religious Value	(R)	24.42	4.80	31.23	1.17	2.75 **
3	Educational Value	(E ₁)	40.23	3.86	36.64	4.03	1.42 *
4	Materialistic Value	(M ₁)	21.82	6.43	25.42	2.87	1.16
5	Social Value	(S)	31.81	2.32	30.62	3.38	3.52 **
6	Humanistic Value	(H ₁)	33.22	5.91	35.61	3.99	0.67

^{**} Significant at .01 level

^{*} Significant at .05 level.

Significance level has been tested against null hypothesis using two tailed test from table D of Henry-E. Garrett in his book named "Statistics in Psychology and Education", Vakils Feffer and Simon Private Ltd., 18 Ballard Estate, Bombay-1, India P.461. Entering in Columns for 0.05 and 0.01 level of significance CR value expected for df.(150+210-2) = 358 after interpolation are 1.29 and 1.43 respectively.

Discussion:

Above table gives a comparative study of the performances of high achievers and low achievers on PVQ in terms of means and standard deviations. Table 4.34 represent that out of six critical ratios calculated to study the significance of differences between two means, only three values are significant and rest three are insignificant. Out of the three significant critical ratios, two are significant at .01 level while the rest one is significant at .05 level. The significant critical ratios are for the values- Religious, Educational and Social. Here, the means of low achievers are comparatively more on the significant religious value whereas on the rest two significant values viz. Educational and Social, their means are lower as compared to means of high achievers. From this we draw the following conclusions:

- 1. High achievers are more educational and social.
- 2. Low achievers are more religious.

3. On values P, M₁ and H₁, two group performances are somewhat different due to sampling fluctuation since the groups are insignificant at both the levels. Hence, there is no real or true differences between the population mean. The apparent difference between the means of two groups are due to the sampling error only.



CHAPTER-V

CHAPTER - V

Findings and Conclusions:

The previous chapter includes the analysis and interpretation of the data in connection with the relation of scholastic achievement on the basis of personality factors and values. It becomes, therefore, necessary to summarize here the conclusions resulting from the investigation. This chapter starts with the answers to the hypotheses that were framed in connection with this investigation.

Hypotheses Tested:

Hypothesis No. 1 (a) states that:

"There is no significant correlation between personality factors and scholastic achievement of female students.

The research findings in the case of female subjects are the following:

Out of sixteen personality factors only five are significantly correlated beyond .01 level of significance, they are as follows:

- 1. Reserved Vs. Outgoing.
- 2. Less-intelligent Vs. More Intelligent.
- 3. Affected by Feelings Vs. Emotionally Stable.

- 4. Shy Vs. Venturesome
- 5. Relaxed Vs. Tense.

Personality factors relaxed Vs. tense is negatively correlated while the rest four are correlated in positive direction. Thus, it can be said that these five sub-hypotheses stand rejected at .01 level.

The other four personality factors which are significantly related at .05 level of significance are as follows:

- 1. Expedient Vs. Conscientious.
- 2. Tough minded Vs. Tender minded.
- 3. Group dependent V. Self-sufficient.
- 4. Undisciplined Vs. Controlled.

Personality factor, viz., tough minded Vs. tender-minded is correlated in negative direction while the rest three are positively correlated. Thus, it can be concluded that these four sub-hypotheses related to these factors stands rejected at 0.05 level. Rest seven factors, viz., factor E, F, L,M,N,O and Q₁ are not significantly correlated with scholastic attainment.

In short it can be said that hypothesis no.1 (a) for female students is partly rejected and partly accepted.

Hypothesis No. 1 (b) States that:

"The relationship of different personality traits with academic achievement does not exist significantly when intelligence is held constant."

Out of the sixteen coefficient of correlation only one is significant at .01 level in negative direction. This trend is concerned with 'Relaxed-Tense', so it can be said that the hypothesis No. 1(b) is partly accepted but mostly rejected.

Hypothesis No.1(c) states that:

"There is no significant relationship between personality traits and academic achievement when S.E.S. is hold constant."

The finding in this connection is that three coefficient of correlations are significant at .01 level and two at .05 level. These findings show that the personality traits of 'Reserve-Outgoing', 'Less Intelligent-More Intelligent', 'Relaxed-Tense', do correlate with academic achievement. Thus, the hypothesis No. 1(C) is partly rejected. Again, the personality traits of 'Affected by Feelings-Emotionally stable', 'Tough minded - Tender minded are significantly correlated .05 level. Again hypothesis No. 1(C) is rejected at .05 level.

On the whole, it can be said when S.E.S. is held constant hypothesis no. 1(C) is partly accepted and partly rejected.

Hypothesis No.1(d) states that:

"The significant relationship does not exist between personality factors and academic achievement when S.E.S. and intelligence both are hold constant" Out of sixteen correlations only two coefficient of correlations are significant. One is significant at .05 level which is concerned with the personality traits, 'Affected by feelings - Emotionally stable', while the other is significant at .01 level which is concerned with the personality factor of 'Relaxed-Tense' On the basis of this it can be said that the null hypothesis No. 1(d) is only partly accepted and partly rejected.

Hypothesis No. 2 (a) States that:

"There is no significant relationship between values and academic achievement". Out of the six values, only two are significant .01 level which show that the hypotheses related to these ten values stand rejected at .01 level of significance. These two values are Religious and Social.

Other, two values, viz. Educational and Materialistic are significantly correlated at .05 level. Therefore, hypotheses related to these two values stand rejected at .05level.

In short, it can be said that hypothesis No. 2(a) is partly rejected and partly accepted.

Hypothesis No. 2(b) States that:

"No significant relationship exists between values and academic achievement when intelligence is held constant."

When intelligence is controlled, out of six values, only four are significantly correlated. Religious, Educational and Social values are significant at .01 level which show that the hypotheses related to these values stand rejected at .01 level of significance. Materialistic value is significant at .05 level of significance, which shows that the hypothesis related to this value stands rejected at .05 level.

Hypothesis No. 2 (c) states that:

"Significant relationship does not exist between values and academic achievement when S.E.S. is held constant." When S.E.S. is controlled, out of six values, two are significant at .01 level and two are significant at .05 level of significance. Religious and Social values are significant at .01 level of confidence which show that the hypotheses related to these values stand rejected at .01 level. Other two values, viz. Educational and Materialistic are significant at .05 level which show that the hypotheses related to these two values stand rejected at .05 level.

Hypothesis No. 2 (d) states that:

"There is no significant relationship between values and scholastic achievement when intelligence and S.E.S. are hold constant at a time".

Out of the six values, four values viz. Religious, Educational, Materialistic and Social are significantly related at .05 level of significance when S.E.S. and Intelligence, both are controlled. It shows that the hypotheses related to these values stand rejected at .05 level of confidence. Here, the level of significance of Religious and Social values have been reduced from .01 to .05 level when both S.E.S. and Intelligence are being controlled.

Hypothesis No. 3 states that:

"Each personality factors and values when combine together do not predict significantly to the scholastic achievement."

The findings in this case are that out of twenty two partial regression coefficients only five significantly contribute to academic achievement. The calculated values of 'F' of these five independent variables namely personality factor A, G, L, Q₁ and Q₂ all are significant at .01 level of significance. Besides this, multiple coefficient of correlation is also significant at .01 level. So the null hypothesis is partly accepted and partly rejected in case of female subjects.

Hypothesis No. 4 states that:

"Personality characteristics of high and low achievers do not differ significantly."

The findings in this case are that the obtained critical ratios indicate that the high achievers and low achievers differ significantly only on nine personality factors out of sixteen personality factors at .01 level of confidence.

These nine personality factors are A, B, G,H, I, Q_1 , Q_2 , Q_3 and Q_4 . Hence, the hypotheses related to these factors stand rejected.

On the whole, It can be said hypothesis NO. 4 is partly accepted and partly rejected.

Hypothesis No. 5 states that:

"The high and low achievers do not differ significantly in their values".

The findings in this case are that the obtained critical ratio indicate that the high achievers and low achievers also differ significantly only on three values, out of six values at .01 level. These three values are Religious, Educational and Social. Hence, the hypotheses related to these three values stand rejected at .01 level.

Therefore, the hypothesis No. 5 is partly accepted and partly rejected at .01 level of confidence.

Conclusions:

The investigator is now in a position to draw conclusions on the basis of the findings mentioned above.

A. Relationship of Personality Characteristics and Scholastic Achievement:

Out of sixteen personality factors, only nine factors, viz. A, B, C, G, H, I, Q_2 , Q_3 and Q_4 for female subjects are significantly related with scholastic achievement. Hence, the following nine conclusions can be made for :

- A-1. 'Reserved-Outgoing' viz. factor 'A' of the personality is significantly related to scholastic achievement in positive direction. A person who gets high score on this factor is likely to get good scholastic achievement, while those who get low score would get low scholastic achievement.
- A-2. "Less intelligent More intelligent" factor 'B' of the personality is positively and significantly related with scholastic achievement, meaning thereby, that those female subjects who are highly intelligent are likely to get better scholastic achievement.
- A-3. Personality factor 'C' viz. 'Affected by Feelings -Emotionally Stable' is positively and significantly

correlated with scholastic achievement, it means that female students who get high scores on this factor are likely to get good marks. In other words, it can be said the subjects who are emotionally stable have the tendency to get good scholastic grades.

- A-4. "Expedient-Conscientious" factor 'G' is positively correlated with scholastic performance. It means those who are conscientious i.e. possess high score are likely to show good scholastic achievement.
- A-5. Personality factor 'H' viz. "Shy Venturesome" is also significantly correlated, meaning thereby, those who are venturesome are likely to get good marks.
- A-6. Tough-minded vs. Tender-minded is negatively correlated with scholastic achievement. It means that higher the scores on this factor, the subjects are to get poor school marks. In other words, those who are tender-minded are likely to get poor marks.
- A-7 "Group-dependent Vs. Self-sufficient" factor 'Q2' of the personality is also positively and significantly correlated with scholastic achievement, meaning thereby, those subjects who get high score on this factors are likely to get good school marks. Those who are self-sufficient are better in scholastic performance.

- A-8. Factor 'Q₃' viz. "Undisciplined Controlled" of personality is significantly correlated in positive direction. It means that the subject who are controlled possess the quality to get good scholastic achievement.
- A-9. Personality factor of Relaxed Tense' viz. factor ${}^{'}Q_4{}^{'}$ is also negatively and significantly related with scholastic achievement. It means that those who are relaxed in nature are likely to get good school marks. While anxiety-ridden pupils or those who are suffering mental tensions are likely to get poor school grades.

The remaining seven correlations are in significant and hence nothing definite can be said about their relationship with scholastic achievement.

- B- Relationship of Personality Characteristics and Academic Achievement when Intelligence is Partialled Out:
- B-1. When intelligence is held constant personality trait of 'Relaxed-Tense', is negatively correlated with academic achievement is significant at .01 level. It means that there who are having the relaxed trait of personality likely to get good academic achievement. While anxiety ridden pupils or those who are suffering from mental tensions are likely to get poor grades. The other fifteen correlations are insignificant and hence, nothing definite, can be said about their relationship with academic achievement.

- C. Relationship of Personality Characteristics and Academic Achievement when S.E.S. is Held Constant:
- C-1. 'Reserve-Outgoing' trait of personality is significantly related to academic achievement, when S.E.S. is held constant.
- C-2. 'Less intelligent-More intelligent trait of personality is significantly related to academic achievement.
- C-3. When S.E.S. is held constant, personality characteristic of Affected by feelings Emotionally stable also contributes to academic achievement. It means that those who have the emotionally stability of personality are likely to get good academic achievement.
- C-4. The personality trait of 'Tough minded-Tender minded' is significantly related in the negative direction with academic achievement. Those who score low on this personality trait are called tough minded and they are likely to get good grades.
- C-5. 'Relaxed-tense' trait of personality is related to academic achievement in the negative direction.

- D- Relationship of Personality Characteristics and Academic Achievement when Intelligence and S.E.S. are Held Constants:
- D-1. Personality characteristic of Affected by feeling Emotionally stable is related to academic achievement in
 the negative direction. It would mean that those who are
 having the personality characteristics of affected by
 feelings are likely to get good academic achievement.
- D-2. When S.E.S. and intelligence are held constants the, personality trait of "Relaxed-Tense" is related to academic achievement in the negative direction.

E. Relationship of Values and Academic Achievement:

- E-1. "Religious, Educational, Materialistic, and Social values of female subjects are significantly related to the academic achievement. Religious and Social values are negatively correlated while Educational and Social values are correlated in positive direction. Hence, the female subjects who are less religious and materialistic are likely to get good marks whereas more social and educational subjects are likely to get good academic performance.
- E-2. When intelligence is held constant four values out of six values are significantly correlated with academic achievement, Educational & Social values are related in positive direction whereas Religious and Materialistic values are related in negative direction. Hence, the results of E-1 are confirmed.

- E-3. When S.E.S. is held constant, the result is the same as it was in the case when intelligence was controlled. Only magnitude of correlation has been altered. Educational and Social values are related positively whereas the Religious and Materialistic values are related negatively. Hence, the inference is the same as it was in E-1 and E-2.
- E-4. Values also influences academic attainment even if S.E.S. and Intelligence are held constants. It can be inferred that values are the powerful factors which contribute to academic achievement, irrespective of S.E.S. and intelligence. Since Educational and Social values contribute in positive direction whereas Religious and Materialistic values contribute in negative direction.
- F- Prediction of Academic Achievement with the help of 16 Personality Factors along with 6 Values:
- F-1. Out of twenty-two independent variables (16 P.F. and 6 values) of female subjects, only five predict significantly to the academic achievement. These significant variables are the personality traits of 'Reserved Outgoing', Expedient-Conscientious, Trusting-Suspicious, Conservative Experimenting and "Group dependent Self sufficient".

f Copyright Act

- G. Comparative Study of Personality Factors of High Achievers and Low Achievers.
- G-1. High and Low Achievers of female subjects differ significantly in the following factors:
- 1. Factor A. Reserved Vs. Outgoing.
- 2. Factor B. Less Intelligent vs. More Intelligent.
- 3. Factor G. Expedient vs. Conscientious
- 4. Factor H. Shy vs. Venturesome.
- 5. Factor I. Tough-minded vs. Tender-minded
- 6. Factor Q₁ Conservative vs. Experimenting
- 7. Factor Q₂ Group dependent vs. Self-sufficient
- 8. Factor Q₃ Undisciplined vs. Controlled
- 9. Factor Q_A Relaxed vs. Tense.

The following general conclusions for female students can be made:

- (i) High achievers are out-going, more intelligent, conscientious, venturesome, experimenting, self sufficient and controlled where as low achievers are reserved, less intelligent, expedient, shy, conservative, group dependent and undisciplined.
- (ii) High achievers are tough-minded and tension free whereas low achievers are tender-minded and anxiety-ridden.

of Copyright Act

- H. Comparative Study of Values of High Achievers and Low Achievers:
- H-1. High and Low achievers differ significantly in the following values:
- 1. Religions Values (R)
- 2. Educational Values (E₁)
- 3. Social Values (S)

The following general conclusions for female students can be made:

- 1. High achievers are more educational and social.
- 2. High achievers are less religious

Educational Implications of the Findings:

The educational implications of the present study are not difficult to discover. The subject of the study is of much importance and is of vital concern to educators. The study has, at least, reaffirmed the importance of the personality factors in academic achievement. Not only personality factors but values have also established its significance for academic achievement. It has been pointed out that nine out of the 16 personality factor and four out of 6 values significantly predict academic performance. The need for such study was voiced by the tremendous academic failures and under achievement faced by

the present day Indian education. In this light the present study has certain implications of major importance. Enhancement of academic prediction, guidance for failures and under achievement are more important situations in which the findings can be utilized.

This study may be of immense use for the prediction of academic achievement. It follows logically that these personality characteristics can be included in the prediction battery of high school students in order to make suitable selection for awarding merit scholarships.

The results of the present investigation appear to be hopeful and positive. Several personality traits as measured by 16 P.F. Questionnaire have been revealed to be correlated with academic achievement. This shows that personality characteristics constitute important determinants of academic achievement. From the guidance point of view it is of much use. The knowledge of the contributing factors of personality may be useful to the teacher and guidance worker to understand academically failing students fully. The probable causes of the failures may be traced back to those personality characteristics found to be significantly correlated with academic achievement in the present study. Through counseling interviews they may be made aware of the personality characteristics which impel them to achieve more.

The findings of this study may be helpful to the administrator. The administrator may provide such situations in the school through which students may develop those personality characteristics which are useful in enhancing academic achievement.

Another important finding of this study is the significant contribution of values to academic achievement. The relationship that was normally obtained between these two variables is probably due to the fact that more highly values subjects work harder or more persistently and thus acquire or produce more. The real relationship is, therefore, apparently between the values and the amount and variety of performance. So, it would not be out of place to give some suggestions concerning the primary problem of arousing and maintenance of values motivation. Though satisfactory scientific research on this problem is still too sketchy to justify more than a casual treatment.

One of the aspects of values that is, academic aspiration can be aroused and be continued by avoiding initial discouragement. One of the problems involved in the initiation of academic performance and enhancement of academic aspiration is that of overcoming inertia. This is a difficult task, but it is enormously and unnecessarily worsened if the student is permitted to be overwhelmed by exposure, without modifying precaution, to the full scope of the task expected of him. Thus

a student can more often be stimulated to work by a reasonable partial assignment than by the assignment of the whole task all at once.

Judicious use of external incentives can also be helpful in preventing initial discouragement. This is the most important problem, because using general social or classroom pressure to force a student to go through the motion of studying difficult material without sufficient relevant motivation is one of the surest ways to produce a permanent loss of interest and ability in a subject.

Suggestions for Further Researches:

Due to the immense importance placed on academic achievement and unending efforts to maximize the achievement level among pupils, the present study has thrown some light and insight into the relationships between personality and academic achievement and between values and academic achievement. Some broad suggestions on the lines on which further research studies can be conducted are given below-

1. The investigator feels that neither psychological nor sociological factors alone are capable of substantially enhancing our understanding of academic achievement. Thus the investigator proposes that it is at the level of the interaction between these two types of factors that any major break-through is likely to come, and for this reason

the personality and social structure approach holds the best promise. An appropriate topic for research can be "To study the relationship and interaction between social reinforcement and personality characteristic and their impact on academic achievement".

- 2. Another interesting study can be conducted on the role of high school environment in determining the academic achievement of boys.
- 3. It may be worthwhile to study how the size of the school affects academic performances. In addition to this the relation between the achievement of the students and the characteristics of their school may be undertaken.
- 4. The present investigation was limited to female students only. Male students can also be the subject of study. Sex differences with regard to personality characteristics and academic motivation of values can be investigated.
- 5. Research may be undertaken to relate the different factors with values.
- 6. It may be interesting to study the relationship between personality traits, values and academic achievement of arts, science and commerce students. If stream wise analysis is made separately for each group of students, probably a different picture of predictors may emerge.

FINDINGS AND CONCLUSIONS

Values predictors of academic achievement in science may be found to be different from those of arts or commerce.

- 7. A study may be undertaken to study the influence of teachers on values.
- 8. One of the important areas in which a thorough probing is required. The personality characteristics and values of boys studying in the public and private schools.
- 9. It could also be seen as to how values changes in the same group as they receive achievement motivation.
- 10. Researches may be planned by developing a fairly exhaustive list of traits, relevant to success in academic achievement and different groups may be compared.

f Copyright Act

BIBLIOGRAPHY

BIBLIOGRAPHY

- Aimsworth, M.E.: The Relationship between Personality, Intelligence and School Attainment in Secondary Modern School, *British Journal of Educational Psychology*, Vol. 37, No. 1, February 1967. PP. 135-137.
- Allahabad University, Department of Education, "Report on Causes of Failures in High School Examination", Ministry of Education, Government of India, Project, January 1961.
- Austrin, H.R.: Cross Validation of an Attitude Scale for the Identification of High and Low Scholastic Achievers, *Journal of Educational Research*. 1965, Vol. 58, No. 9, PP. 26-428.
- Abraham, P.A.: "Influence of the Basic Personality Factors on Scholastic Achievement", Cited in M.B. Buch, Survey of Research in Education, Faculty of Education and Psychology, M.S. University of Baroda, 1974.
- Agrawal, S.K.: "A Psycho-Social Study of Scholastic Underachievement at Secondary School Level in the State of Rajasthan", *Ph.D. Thesis in Education*, Rajasthan University, 1975.
- Barrett, Harry!: "Intensive Study of 32 Gifted Children", *Personal and Guidance Journal*, Vol. 36: No. 3, 1958, PP. 193-194.
- Bendig, A.W.: "Comparison of the Validity of Two Temperament Scales in Predicting College Achievement", *Journal of Educational Research*, Vol. 51, No. 8, April 1958, PP. 605-609.

- Best, J.W.: "Research in Education", New Delhi, Prentice Hall, 1963, P.184.
- Bellucci, J.T.: "The Contribution of Values in the Predicting Success in Practical Nursing Training Programmes", Dissert. Abst. Inter., 1970, 31, 2731-2732-A.
- Bhatnagar, R.P.: Personality and Other Factors in Scholastic Performance. Review of Research "Educational Trends" Vol. I, No. 4, July 1969.
- Bhatnagar, R.P.: A Study of some of th Personality Factors as Predictors of Academic Achievement, *C.I.E. Studies in Education and Psychology*, Publication No. 63, 1968.
- Bishton, Rodger: "A Study of some factors Related to Achievement of Intellectually Superior Eighth-grade Children" *Journal of Educational Research*, Vol. 51 No.3, November 1952, P. 202-207.
- Bloomberg, M.: "The Prediction or Scholastic Success Through the Use of Forced Choice Problems and Attitude Inventory", *Dissertation Abstract*, Vol. 15: 1955, P-256.
- Brown, W.E. and Holtzman, W.H.: "Use of the Survey of Study Habits and Attitude for Counselling Students" *Personal and Guidance Journal*, Vol. 35, January, 1955, PP-214-218.
- Burgess, E.: "Personality Factors of Over and Under Achiever in Engineering", *Journal of Educational Psychology*, Vol. 47, No. 2, February 1956, PP-88-99.

- Burgess, Elva: "Personality Factors of Over and Under Achievers in Engineering", Pennsylvania State University.

 Abstract of Dissertation, Vol. 16, No. 1953, PP-536-43.
- Banerjee, N.P.: "Comparative Study of Four-type of Basic and Non Basic Schools in respect of Their Scholastic Achievement and Some Aspects of Personality Development", Cited in M.B. Buch, Survey of Research in Education, M.S. University of Baroda, 1974.
- Cattell, R.B. and Butcher, H.J.: "The Prediction of Achievement and Creativity", Indianapolis Bobbs-Merrill, 1958.
- Cambell, W.J.: "The Influence of Home Environment on the Educational Progress of Selective Secondary School Children", *British Journal of Educational Psychology*, Vol. 122, 1972, PP-255-260.
- Cattell R.B., Sealey, A. P. and Swney, A.B.: "What can Personality and Motivation Source Trait Measurement add to the Prediction of School Achievement", *brit Jr. Edu. Psy.*,1966, 36, 280-295.
- Centi, Paul: Personality Factors Related to College Success", Journal of Educational Research, 55: 4, 1962, PP-187-188.
- Chaudhri, S.H. "An analytic Study of Correlated Factors of Scholastic Performance of College Students of Mizoram", *Ph.D. Thesis in Education*, M.S. University, Baroda, 1980.

- Chaupra: "A study of Relationship of S.E.S. with Achievement of the Student in the Secondary School" Ph.D. Thesis in Education, Lucknow University, 1954.
- Cough, H.G.: "What Determines the Scholastic Achievement of High School Students", *Journal of Educational Research*, Vol. 46, 1953, PP-321-331.
- Cole, C.W. and Miller, C.D. "Relevance of Expressed Values to Academic Performance", *Jr. Counsel. Psychol*, 1967,14(3) 272-276.
- Cronbach, Lee J.: "Essentials of Psychological Testings" Harper and Brotehrs, New York, 1949.
- Dutta, Sunitee: "Prognostic Value of Higher Secondary Examination of Delhi", C.I.E. Studies in Education and Psychology, Publication NO. 7, 1956.
- Elliot, C.D.: "Personality Factors and Scholastic Achievement", British Journal of Education and Psychology, Vol. 42, NO.1, 1972.
- Eysenck, H.J.: "The Dynamics of Anxiety and Hysteria", Routledge and Kegon Paul, London, 1957.
- Eysenck H.J., and Cookson: "Personality in Primary School Children" *British Journal of Education and Psychology*, Vol. 39 Part 2, PP-109-22.
- Flemming, E.G.: "College Achievement, Intelligence, Personality and Emotions" *Journal of Applied Psychology*, Vol. 16, 1932 PP-666-674.

- Frankel Edward: "A Comparative Study for Achieving and Under Achieving High School Boys of High Intellectual Ability" *Journal of Educational Research*, Vol. 53, No. 5 January 1960, PP-172-180.
- Garrett, Henery E.: "Statistics in Education and Psychology", Vakil Feffer and Simons Private Ltd., Bombay Fourth Edition, 1967, P-413-414.
- Garrett, H.F.: "Review and Interpretation of Investigation of Factors Related to Scholastic Success in College of Arts and Science and Teachers, College", *Journal of Experimental Education*, Vol. 28, 1949, PP-91-138.
- Ghuman, M.S.: "A Study of Aptitudes, Personality factors and Achievement Motivation of Scholastic Over-achievers and Under-achievers", *Ph.D.*, thesis in *Psy.*, Rajasthan University, 1976.
- Guilford, J.P.: Fundamental of statistics in Psychology and Education, New York, McGraw-Hill Book Company Incl., third Edition, 1950, P-135.
- Guilford, R.R. and Voas, W.M.: "Personality Test and Scholastic Attainment", *Personality Journal*, Vol. 9, 1930, PP-305-308.
- Gumeson, G.G.: "A Comparative Analysis of Needs, Values, Cognitive Ability and Other Personality Characteristics of High and Low Creative": Junior College Students', Studies, 1964, 14:12, 527-5528.

Copyright Act

- Harris, D.: "Factor Affecting Colleges Grades", A Review of the Literature, 1930-1937, Psychological Bulletin, Vol. 37, 1940, PP-125-166.
- Harris, D.: "The Relation to College Grades of Some Factors other than Intelligence", *Achievers of Psychology*, No. 131, 1931, P-131.
- Hapner, E.M. "Self-Concept, Values, and Needs of Maxican American Under-Achievers", *Dissert. Abst. Inter.*, 1970, 31, 2736-A.
- Held, O.C.: "An Attempt to Predict the Success of University Freshmen in their Adjustment to Scholastic Work", University Pitab Bulletin, 1931, PP-86-94.
- Holland, J.L.: "The Prediction of College Grades Form Personality and Aptitude Variables' *Journal of Educational Psychology*, Vol. 51 No. 5, October 1960, PP-245-254.
- Hussain, M.Q.: "A Study of Scholastic Attainment in Relation to Level of Aspiration and Anxiety", *Ph.D. Thesis in Education*, A.M.U., 1977.
- Lyer, K.K.: "Some Factors Related to Under Achievement in Mathematics of Secondary School Students", *Ph.D. Thesis* in *Education*, Kerala University, 1977.
- Jain, D.K.: "A Study of Significant Correlates of High School Failures in Mathematics and English with Special Reference to Jammu Division", *Ph.D. Thesis in Education*, Kerala University, 1979.

- Koul, L.: "Personality Needs of High and Low Achievers in Mathematics", *Ph.D. Thesis in Education*, H.P.University 1978.
- Kulshrestha, L.: "A Study of Certain Factors Related to Differential Patterns of Achievement Among Bright Students", *Ph.D. Thesis in Education*, Agra University, 1981.
- Kulsherestha, S.K.: "A Study of Intelligence and Scholastic Achievement of X and XI Classes Students in U.P.", cited in M.B. Buch *Survey of Research in Education*, M.S. University of Baroda, 1974, P-331.
- Kumar, A.: The Relationship between Personality and Mental Ability Variables and Achievement through Programmed Instructional Styles", *Ph.D. Thesis in Education*, A.M.U.,1981.
- Kundu, Ram Nath: "An Investigation into the Prediction of School Success", *Indian Journal of Psychology*, 37:2, 1962, PP-75-84.
- Lavin, David E.: "The Prediction of Scholastic Performance",
 John Willey and Sons, Inc., New York, 1955, P-56.
- Lavin, David E.: "The Prediction of Scholastic Performance", John Willey and Sons, Inc., New York, Science Editions, 1967, PP-74-99.
- Lavin, David E.: "The Prediction of Scholastic Performance", New York, Russel Sage Foundation, 1967, P-12.

- Linduist, E.F.: "Statistical Analysis in Educational Research",
 Boston: Houghton Miffin Co., 1940, PP-219-234.
- Lynn, R.: "Two Personality Characteristics Related to Scholastic Achievement", *British Journal of Educational Psychology*, Vol. 29, No. III, November, 1959, PP-213-216.
- Lynn R. and Gordon I.E., : "The Relation of Neuroticism and Extroversion to Intelligence and Educational Attainment", *British Journal of Educational Psychology*, Vol. 31, No. Part 2,June 1961, PP-194-203.
- Maling, L.R.: "Anxiety and Scholastic Prediction", Journal of Counsel Psychology, Vol. II, 1964, PP-71-75.
- Mathur: "Effects of S.E.S. on Achievement and Behaviour of Higher Secondary School Students", *Ph.D. Thesis in Psychology*, Agra University, 1963.
- Mehrotra, S.N.: "Predicting Intermediate Examination Success" by means of Psychological Test, A Follow up study, *Journal of Vocational and Educational Guidance*, 4:4, 1958, P-161.
- Menon, S.K.: "A Comparative Study of Personality Characteristics of Over-achievers and Under-achievers of High Ability", *Ph.D. Thesis in Psy.*, Kerela University, 1972.
- Misra, H.K.: "Personality Factors of High and Low Achievers in Engineering Education", Cited in M.B. Buch, Survey of Research in Education, Faculty of Education, M.S. University, Baroda, 1974.

[177]

[

- Mohanta, D.: "Assessment of Personality, A study of Bernreutr Personality Inventory", Bulletin Council of Social and Psychological Research, Calcutta, No. 4 1965, PP-17-23.
- Mukherji, B.N.: "Prediction of Grades in Introductory Psychology from the Taylor Manifest Anxiety Scale using a Multivariate Covariance Adjustment Method", *I.D.A.*, 1979.
- Nagpal, R.: "A Study of Non-intellectual Characteristics of Over-and Under-achieving Engineering Students", *Ph.D. Human, I.I.T.*, New Delhi, 1979.
- Nason, L.J.: "Scholastic Achievement of Gifted High School Students", University of Southern California Press, Los Angles 1958.
- N.C.E.R.T.: "Educational Investigation in Indian Studies (1939-1961)", New Delhi, 1966.
- Pierce, James. V.: "Achiever and Under-achiever", A Comparison

 The Year Book of Education, The Gifted Child 1952, The

 University of London, Institute of Education and Teachers

 College, Columbia, University, New York, P-142.
- Rai, J.G.: "A Study of Relationship between Intelligence and Scholastic Achievement in Compulsory School Subjects", *Journal of Vocational and Educational Guidance* 1:4, P-35.
- Rao, Gopal: "A Study of Some Factors Related to Scholastic Achievement", C.I.E. Studies in Education and Psychology, New Delhi.

- Report of Education Commission, Delhi, Ministry of Education, Govt. of India, P-246, 1964-66.
- Ravindra: "The Effect of State Factors, Anxiety, Psychological Stress and Intelligence on Learning and Scholastic Achievement", *Ph.D. Thesis*, *Psychology*, Punjab University, 1977.
- Ridding, L.W.: "An Investigation of Personality Measures Associated with Over and Under Achievers in English and Arithmetic", *British Journal of Educational Psychology*, Vol. 37, 1957, PP-397-398.
- Ruth, E, Eckert: "Analysing the Superior Student", School and Society, Vol. 1, 1953, PP-69-72.
- Savage, R.D.: "Personality Factors and Academic Performance", British Journal of Educational Psychology, Vol. 32, No. 3, 1962, PP 251-253.
- Shan G.S.: "Patterns of Self-disclosure and Adjustment among High and Low Achievers", *Ph.D. Thesis in Psy.*, Kum. University, 1980.
- Sharma, Atma Ram Garg, Kanta Prasad: "Prediction Higher Secondary School Examination Success" *Education and Psychology Review*, Vol. 12 No 3, 4 (July-Oct., 1972)
- Singh, R.P.: "Intelligence and Personality factors as the Predictors of School Performance", An Unpublished Thesis of M.Ed. Aligarh Muslim University, session 1959-60.

opyright Act

- Spielberger, C.D.: "The Effect of Manifest Anxiety on the Scholastic Achievement of College Students" *Mental Hygience*, Vol. 46, 1962, PP-420-426.
- Som Sundaram, M.: "A Comparative Study of Some Personality Variables Related to Over, Normal and Under-achievement in Secondary School Mathematics", *Ph.D. in Education*, Calicut University, 1980.
- Soble, R.K.: "Student Value Change and Congruency with Faculty Values in Professional Education Related to Reference Group Theory", *Dissert, Abst. Inter.*, 1978, 37(11),7346-A.
- Taylor, H.R.: "The Scholastic Significance of Certain Personality Factors", (Abstract) *Psychological Bulletin*, Vol. 30,1933, PP-60.
- Traverse, Robert, M.W.: "An Introduction to Educational Research", New York, The Mac Millan Company, 1964, P-284.
- Thomson, O.E. "High School Students Values Emergent or Traditional", *California Jr. Edu*. Res. 1961, 12, 132-146.
- Walker, H.M. and Lev, J.: "Statistical Inference", (New York: Henry Holt and Co.) Table XI, P-70.
- Walker, H.E. "A Study of Differences in Expressed Values of High School Seniors of Selected Secondary Schools", *Dissert. Abst. Inter.*, 1970, 31, 2200-A.

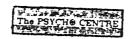
L

- Wright, S.: "Some Psychological and Physiological Correlation of Certain Scholastic Under Achievers", *Ph.D. Thesis* University of Chicago Library, 1955.
- Zachariah, S: "Fantasy Life of Adolescents Girls and Its Influence on Educational Achievement", *Ph.D. Thesis in Education*, Kerala University, 1982.

APPENDICES

TOOLS USED

- (i) Sixteen P.F. Questionnaire
- (ii) Personal Value Questionnaire
- (iii) S.E.S. Scale Form A and Form B
- (iv) Group Test of General Mental Ability.



FORM C

(IPAT's 1969 Edition)

VSJ 1981 Hindi Edition

Prefate to : S. D. KAPOOR Ph. D. & V. K. D. TRIPATHI

अपको त्या करना है। इस परतार से इस प्रश्न ऐसे हैं, जितसे यह पता चलेगी कि आपका मनीभाव कैसा है और आपकी जान्स हैं। अप कि कि उपने काए मही या गानते उत्तर नहीं हैं, वियोक्ति हर आदमी की अपना-अपना दृष्टिकीण रखने का अधिकार है। इस जान के किस्स अवसे अवसा मुझाय पाने के लिये आपको चाहिये कि सभी प्रश्नों का उत्तर ठीक-ठीक और सिकार के साथ दे। आपको असम के एक 'उत्तर-पत्न" दिया जाएगा, जिसमें अपना नाम और अस्य जानकारी की बातें ऊपर की साथ के शिकार के लिये हैं। अपने के लिये के साम के स्वास की सम्बन्ध के साथ दे। आपको असम के एक 'उत्तर-पत्न" दिया जाएगा, जिसमें अपना नाम और अस्य जानकारी की बातें ऊपर की साथ के साथ की जिल्ला

सबस् करने आपको सांच लिखे समून के बार प्रथमों का उत्तर देना चाहिये जिससे आपको पता लग जाण कि जांच गुरू करने के वहले आपको कुछ पूछता तो नहीं है। वैसे आपको सभी प्रथमों को तो इस पुस्तिका से पढ़ना है, पर उनके उत्तर केवल "उन्तर-पत्न" में ही देना है (जिस नस्बर का प्रथम पुस्तिका में हो उसी नस्बर के खाने में "उत्तर-पत्न" पर निशान लगाना है)। हर एक प्रथम के तीन संभावित उत्तर दिये हुए हैं। नीचे लिखे उदाहरणों को पढ़िये और अपने उत्तरों को "उत्तर-पत्न" के उत्तरी माग पर जहा "उदाहरण" छपा है, गुणा या क्रास (×) के निशान के जरिये किसी एक खाने (box) में भरते जाइये। अगर आप अपना उत्तर वे बाले उत्तर के लिये जुनते है तो बाएं वाले खाने में (box के अन्दर) निशान लगाइये। अगरआपका उत्तर के उत्तर के बाने वे लिये जुनते है तो बाएं वाले खाने में (box के अन्दर) निशान लगाइये। अगरआपका उत्तर के उत्तर के बाने वाले खाने में निशान लगाइये। इसी तरह से अगर आपका उत्तर "c" वाला है तो दाहिने वाले खाने के अन्दर कियान लगा दीतिये।

उद्याहरण

-) में डीम वाले खेली का देखता प्रसन्द करता है।
- 2. मैं ऐसे लोगों को पसन्य करता हैं जो :
 - a. गंभीर हो, b. दोनों के बीच के हों,
 - C. जत्वी बोस्त बना नेते हों।

3. रुपया आनन्द (खुशी) नहीं ला सकता।

a. हां (सच), b. दोनों के बीच का, c. नहीं (गलत)।

- 4. औरत का बच्चे से वही सम्बन्ध है जो भेड़ का :
 - a. मेमना, b. कुता, c. सड़के से हैं।
- आखिरी उदाहरण में एक उत्तर मही है मेमना । लेकिन, इस तरह के तर्क वाले प्रश्न इस पुस्तिका में बहुत कम है। सब अगर कोई बात आपकी समझ में नहीं बाई हो तो अभी पूछ लीजिये। क्योंकि, परीक्षक अब थोड़ी ही देर में आपको पत्ना अगर के जिल और उत्तर तेसर कर करने के लिए कहेंगे।

ध्रमती का उत्तर देते समय गांच निक्षी इन बार बातों की अपने मने में रखें:

- अपको किसी प्रजन पर जसार साथ विचार करने की जहां हों है। जो सबसे पहला उत्तर मन में आदे उसमें ही निशान क्षत्रा हैं। यह सच है कि प्रका बहुत छोटे हैं और आपको उनसे सारी जानकारी नहीं मिल सकती जिन्हें आप कभी-कभी जानना चाहेंगे। उदाहरण के लिए, अपर के पहले प्रका में "टीम वाले खेलों" के बारे में पूछा गया है जबिक ऐसा भी हो सकता है कि आप फुटबाल को बास्केटबाल से ज्यादा पतन्द करते हों। लेकिन आपको "औमत या आमतीर के खेल के लिये" उत्तर देना है या उसी अरह की मिलती-जुलती एक आम या औसत अवस्था का क्याल करके उत्तरदेना है। जहाँ तक हो सके, अप अपना सबसे ठीक उत्तर दें। उत्तर देने की रफ्तार एक मिनट में पांच या खै प्रकाों से कम नहीं होनी चाहिये। ज्यादा से जयादा चालिस मिनट में सभी प्रकाों का उत्तर आपको देना चाहिये।
- 2. बीच वाल''अनिश्चित'' उत्तरों का सहारा लेने की कोशिश मत करिये। इन पर तभी निशान लगायें जब किनारे वाले उत्तरों को देना आपके लिये सचमुच ही असंभव हो—शायद ऐसा चार या पांच प्रश्नों में एक बार हो।
- उस बात का पक्का स्वाल रखें कि कोई प्रश्न छूटने न पाये, और जैसे भी हो सभी प्रश्नों का उत्तर हैं। ऐसा लग सकता है कि कुछ प्रश्न आप पर अच्छी तरह लागू न होते हों, पर आप आपने को उस परिस्थिति में डाल कर अपना उत्तर हैं। आपको कुछ प्रश्न अपने निजी मामलों से भी सम्बन्धित लगेंगे, पर याद रखिये कि आपके उत्तर-पत्नों को बिल्कुल गुप्त रखा जाता है और उनको खामतौर से बनाई हुई कृंजियों की मदद के बगैर नहीं जाना जा सकता। साथ ही एक-एक प्रश्न के उत्तर की जाच असग-असग नहीं की जाती है। इसलिए आप वैदिसक अपने मन का उत्तर हैं।
- 4 जो उत्तर आपके लिए सही है वही उत्तर मच्चाई और ईमानदारी से दें। परीक्षक पर अच्छा प्रभाव डालने के लिए "यह कहना ठीक होगा" ऐमा मोचकर निशान न सगायें।

जब तक कहा न जाय कृपया पन्ना मत उलटिये

Copyright (2) 1981 by The Psycho-Centre. T-22, Green Park, New Delhi-110016, India, and also, 1954; 1956, 1969, by The Institute for Personality & Ability Testing, 1602 Coronado Deive, Champaign, Illinois-61820, U.S.A. All rights reserved. International Copyright in all countries under the Berne Union. Buenos Aires, and Universal Copyright Conventions; and all Billate all Copyright Agreements. Printed in India.

- में सोचता हूँ कि मरी याददाश्त पहले कभी भी उतनी अच्छी नहीं भी जितनी अब है।
 - a. gt, b. दोनों के बीच का, c. नहीं
- मैं लोगों में बहुत दूर. अकेल में, एक माधुकी तरह प्रसन्न रह मकता है।
 - a हा. b मदाकदा c. नहीं।
- ं अगर मुझे आकाण का 'नीचा' तथा सर्वीको 'गर्मकड्ना पढेनो में एक अपराधीको :
 - a. डाक्. b. साध्, c. बादल कहना चाहुँगा।
- ं बिस्तर पर जाते ही सझे :
 - a अक्दो ही नोंद आ जाती है.
 - b. दोनों के बीच का.
 - c. नींद आने में परेशानी होती है!
- 5 ट्रैफिक की लाइन में कार अथवा मोटर साइकिल या साइ-किल चलाते समय मुझे सन्ताय तब होता है, जब:
 - a. कतार में में दूसरी गाड़ियों से पीछ रहता हूँ,
 - D. बोनों के बीच का,
 - c. कतार में सबसे आगे में पहुँच जाता हूँ।
- किसी भी पार्टी में मैं दूसरों को मधाक करने तथा कहानियाँ कहने दिवा करता हैं।
 - a. हां, b. कभी-कभी. c. नहीं।
- ें मेरे लिए मह जररी है कि में गेरे वातावरण में न रहूँ।
 - a. सही, b. अनिश्चित, c. गलत।
- किसी भी पार्टी म सबसे अधिक लोग मुझसे मिलकर निःसंदेह प्रसम्र होते हैं।
 - a. gi, b, कमी-रुमी, c. नहीं।
- ज्यायाम (कमरत) करने के लिए मैं अधिकतर यह पसन्द कहंगा:
 - a. तंरना और नाधना,
 - b. दोनों के बीख का,
 - c. क्रश्ती और बास्केट बाल,
- अब मै लोगों के कुछ कर लेने का दावा करने में और मचमुच के काम करने में बहुत बड़ा फर्क देखता हूँ तो मुझे इस बात पर मन ही मन में हुँसी आती है।
 - a. हां, b. कभी-कभी, c. नहीं।
- किसी भी दुर्घटना के बारे में पढ़ते ही मैं सही सही पता नगाना पसन्द करता हूँ कि यह लगाना पसन्द कैसे हुआ ।
 हमेशा, b. कभी कभी, c. शायद ही कभी ।

12. जब मेरे दोस्त लोग मेरा मजाक बनाते है तों मैं अक्सर बिना कुछ महसूस किए उसका उतना ही आनन्द लेता हूँ जितना दूसरे।

و زوم بالاستاد

- a. सही, b. दोनों के बीच का, c. गलत।
- 13. जब कोई मुझसे गुस्से से बात करता है तो मैं उस बात को जस्दी ही भूज सकता हूँ।
 - a. सही, b. अनिश्चित, c. गलत्।
- 14. पहले से अपनाए गए रास्ते पर चलने के बजाय मैं हर काम करने का नया रास्ता निकालना पसन्द करता हूँ।
 - a. सही, b. अनिश्चित, c. गलत,
- 15. जब मैं कोई योजना बनाता हूँ, तो उसे बिना किसी बाहरी सहायता के, बिल्कुल अकेला पूरा करना पसन्द करता हूँ।

 2. हां, b. कभी-कभी, c. नहीं।
- 16. जितना अन्य लोग ज्यादातर दूसरों के आसरे रहते हैं, उनकी तुलना में मैं अपने आपको कम निर्मं र रहने वाला व्यक्ति समझता हूँ।
 - a. सही, b. दोनों के बीच का, c. गलत
- 17. मैं ऐसे लोगों से मिलकर जल्दी ही परेशान हो जाता हूँ जो फीसला जल्दी नहीं कर पाते।
 - a. सही, b. बोनों के बीच का, c. गलत । (उत्तर-पन्न के कासम 1 का अन्त)
- 18. मुझमें कभी कभी, भले ही थोड़ा सा, अपने माता-पिता के लिए नफरत पैदा होती है।

 2. हां, b. दोनों के बीचे का, c. नहीं।
- 19. मैं अपने अन्दर की बातों को बताना ज्यादा पसन्द कर गा:
 - a. अपने अच्छे दोस्तों से ,
 - b. अनिश्चित.
 - C. डायरी में।
- 20. मेरे विचार से "अशुद्ध" गब्द के उल्टे का उल्टा शब्द :
 - a. अनियमित, b. ठीक, c. घटिया है।
- 21. मैं अपने अन्दर हमेशा एक बड़ी ताकत का अनुभव करता हूँ जब मुझे आवश्यकता होती है।
 - a. हां, b. बोनों के बीच का, c. नहीं !

3

- 22. मैं उस आदमी से अधिक चिड़ता हूँ, जो :
 - अद्दे मजाक करता है और लोगों को परेशानी में डाल देता है,
 - b अनिश्चित
 - c. मिलने का समय निश्चित करके देर से आता है और मेरे लिए असुविधा उत्पन्न करता है।
- 23. मैं लोगों को आमित्रत करके और उनका मनोरंजन कर प्रमन्त होता हूँ।
 - a. सही, b. अनिश्चित, c. गलत।
- 24. मैं महसून करना है कि
 - कुछ नौकरियां सावधानी पूर्वक नहीं भी की जा सकती है जेमा कि हमरी की जाती हैं,
 - b. दोनों के बीच का,
 - c. कोई भी नीकरी की जाय उसे गम्भीरता पूर्वक करना चाहिए
- 25. मुझे अधिक संकोची एवं शर्मीला होने के कार्ण हमेशा लड़ना पड़ा है।
 - a. हां, b. दोनों के बीच का, c. नहीं।
- 26. मेरे लिए यह होना अधिक दिलचस्य होगा:
 - a- एक धार्मिक प्रोहित,
 - b. अनिश्चित
 - c फीज का कर्नल।
- 27. अगर कोई पड़ोसा मुझे छोटी छोटी वातों में धोखा देता है तो सैं उसमें नाराज हाने के बदले उसे खुश रखना ज्यादा पसंद करू गा।
 - a. हां, b. कभी कमी, c नहीं।
- 28, मैं वह दोस्त पसन्द करता हूँ, जो :
 - a. अपनी रुचियों में योग्य एवं ब्यावहारिक हो,
 - b. दोनों के बीच का,
 - c. जीवन के बारे में अपने विचारों को गम्भीरता से सोचता हो।
- 29. जिन वातो हो में अच्छी तरह जानता और विश्वास करता हूँ उनके बार में मुजे दूसरों के विषरीत विचार सुनकर परेशानी होती है।
 - a. सही, b. दोनो के बीच का, c. गलत।
- 30. मैं अपने पिछल कार्यों और गन्तियों के बारे में चिन्ता करता रहता हूँ और अरूरत से ज्यादा सजग रहता हूँ।
 - a. हां, b दोनों के दीच का, c. नहीं।
- 31. यदि मैं दोनो ही खेल खेलनें में ज्यादा अच्छा होता तो मैं यह खेल ज्यादा पसन्द करता:
 - शतरंज खेलना, b. दोनों के बीच का, c. बॉलिंग करना।

- 32. मैं उन लोगों के बीच रहना पसन्द करता हूँ जो समूह में आनन्द लेते हैं और उत्साह दिखाते हैं।
 - a. हां, b. दोनों के बीच का, c. नहीं !
- 33. मैं इसमें ज्यादा विश्वास रखता हैं:
 - a. बीमें में, b. दोनों के बीच का, c. अच्छे माग्य में।
- 34. मुझे जब भी जरुरत होती है, मैं अपनी परेशानियों और जिम्मेदारियों को भूल सकता हूँ।
 - a. हां, b. कमी-कभी, c. नहीं। (उत्तर-पत्रके कालम 2 का अन्त)
- 35. जब में गलत होता हूँ तो मेरे लिए यह मानना मुश्किल होता है।
 - a. हां. b. कभी-कभी, नहीं।
- 36. किसी कारखाने में यह काम संभातना ज्यादा दिलचन्य होगा:
 - a. मशीनरी का काम या लेखा-ओखा रखना,
 - b. दोनों के बीच का,
 - c. नए लोगों को रखना और उनसे बातें करना।
- 37. नीचे निस्ते शब्दों में से कौन सा एक शब्द दूसरे दो शब्दों से मेल नहीं खाता:
 - a. बिल्ली, b. नजबीक, c. सूर्य ।
- 38. खंडी-खंडी बाधाएं (दिक्ततें) भी मझें :
 - a. परेशान करती हैं,
 - b. दोनों के बीच का,
 - c. बिल्कुल परेशान नहीं करतीं।
- 39. उचित और ठीक समय पर अपने निजी नौकरों (Personal Servants) द्वारा इन्तजार किए जाने पर मुझे काफ़ी प्रसन्नता होती है।
 - a. अक्सर, b. कभी-कभी, c. कभी नहीं।
- 40. मैं ऐसे शहर में रहना ज्यादा पसन्द कर्देगा, जो :
 - a. खूबसूरत और कलात्मक इंग से बना हो,
 - b. दोनों के बीच का,
 - ट. देखने में भले ही भव्बा हो मगर उन्नतिशील और विकासवान हो।
- 41. लॉगों को नैतिक नियमों (कानूनों, Moral Laws) का पालन करने पर और अधिक जोर देना चाहिए जिल्ला कि वे देते हैं।
 - a हां, b. कमी-कमी, c. नहीं।
- 42. मुझे ऐसा बताया गया है कि बचपन में मैं ज्यादातर:
 - a. शान्त और पूपच्च रहता था,
 - b. दोनों के बीच का,
 - c. जिन्दादिल और हदेशा फुर्तीला रहता था।

..[

 एक अच्छे यंत्र या मशीन के इस्तेमाल से मुझे रोजमर्रा का निर्माण कार्य करने में भी आनन्द आता है।

a. हां. b. दोनों के बीच का, c. नहीं।

44 मै मोचला है कि अधिकतर गवाह सच बोलते हैं भले ही वह उनके लिए बाद मे परेशानी पैदा करता हो ।

a हां. b दोनों के बोचका, c. नहीं।

- 45. जब मैं किसी नए आदमी से मिलता हूँ तो मैं यह ज्यादा प्रसन्द करूँगा:
 - उससे उसके राजनीतिक एवं सामाजिक विचारों पर बात चीत करना,
 - b. दोनों के बीव का,
 - c. उससे कुछ अच्छे और नए बृटकुले सुनाने के लिए कहना।
- 46 में किसी महाक या चुटकुल पर अपनी हेंसी की दूसरों की तुलना में अधिक सीमित रखने की कोशिय करता हूँ।

a हो, b. दोनों के बीच का, c. नहीं।

- 47. मैं अपने को कभी इतना दुःखी महसूस नहीं करता कि चिल्ला पर्दा
 - a. सही, b. अनिश्चित, c. गलत ।
- 48. संगीत में मैं आनन्द सेता हूँ :
 - a. सेना की बंड परेड में,
 - b. अनिश्चित
 - c. बायलिन को धुनों में।
- 49. मैं गरमी में दो हफ्ते विताना ज्यादा पसन्द कर्रगा:
 - a. पक्षियों (चिड़ियों) को देखते हुए अपने एक या दो दोस्त के साथ देश में घूमकर,
 - b. अनिश्चित,
 - c. किसी खेमें में एक समूह का नेता होकर।
- 50. आगे के लिए योजना बनाने का प्रयास:
 - 2. कमी बेकार नहीं जाता,
 - b. बोनों के बीच का,
 - c. नहीं करना चाहिए।
- 51 अपने पड़ोसियों द्वारा किए गए नासमझी के कार्यों या उनके द्वारा किए गए क्यंगों से मुझे कोई दुःख या अप्रसन्नता नहीं होती।
 - a. सही, b. अनिश्चित, c. गतत । (उत्तर-पत्न के कालम 3 का अन्त)
- 52. मैं उस समय अपने काम को आसान पाता हूँ जब मैं यह जानता हूँ कि मैं सही काम कर रहा हूँ।
 - a. हमेशा, b. कमी-कभी, c. शायद ही कमी।

- 53. मैं यह होना ज्यादा पसन्द करंगा :
 - a. एक क्यापारीक बक्तर में प्रबन्ध और सोगों को देखने का
 - b. बोनों के बीच का,
 - c. एक शिक्ष्यकार के इप में शान्त कमरे में अकेले योजना बनाना !
- 54. "चर" का "कमरे" से वही सम्बन्ध है जो "पौधे" का :
 - a. अंगल, b. प्रेड़, c. पत्ती से है।
- 55. परिस्थितियाँ मेरा साथ नहीं देती है।
 - a. शायद ही कभी,
 - b. कमी-कमी,
 - c. बार-बार ।
- 56. जीवन के बहुत से कामों में मैं विश्वास करता हूँ:
 - a. दीव लगाने में,
 - b. बोनों के बोच का,
 - c. अपने को ब्लाए (सुरक्षित) रखने में।
- 57. कुछ लोग यह सोच सकते हैं कि मैं बहुत बात करता हूँ।
 - a. हो सकता है, b. अनिश्चित, c. असंभव।
- 58. मैं उस आदमी की ज्यादा तारीफ करेगा, जो :
 - a. एक बालाक व्यक्ति हो मगर भरोते लायक न हो;
 - b. बोनों के बोच का;
 - c. श्रीसत प्रकार का व्यक्ति हो मगर किसी मी तरह के सामब या प्रमोमनों (Temptations) को रोकने
 - के लिए बुढ़ हो।
- 59. मैं किसी भी नतीजे परः
 - a. बहुत से लोगों की अपेक्षा जस्दी पहुंचता हूँ,
 - Ď, अनिश्चित,
 - c. अधिकतर सीगों से बाद में पहुँचता हैं,
- 60. मैं ऐसे व्यवहारों से ज्यादा प्रभावित हो जाता हूँ, जिनमें :
 - a. कुशलता और शोमा शलकती हो,
 - b. दोनों के बीच का,
 - c. शक्ति और अधिकार की मावना हो ।
- 61. मैं दूसरों का साथ देने वाला बादमी समझा जाता हूँ।
 - a. हां, b. दोनों के बीच का, c. नहीं !
- 62. मैं मुंहफट और गिरे हुए व्यक्तियों की अपेक्षा ऊँचे और ' कुशल व्यक्तियों से बात करने में ज्यादा आनन्द लेता हूँ।
 - a. हां, b. दोनों के बीच का, c. नहीं।
- 63. मैं अच्छा समझता हूँ :
 - अपनी परेशानियों को अपने तक रखना,
 - b. दोनों के बीच का,
 - c. उनके बारे में अपने दोस्तों से बात करना ।

5

- 64. यदि कोई व्यक्ति मेरे सुझाब देने पर कोई जवाब नहीं देतां तो मैं समझता हूँ कि मैंने कोई वेवकूफी की बात कह दी है। a. सही, b. बोनों के बीच का, c. गलत।
- 65. मैंने अपने स्कूल के जीवन में इस तरह से अधिक सीखा है। a. इर्जे में जाकर. b. दोनों के बीच का. c. किताबें पढ़कर।
- 66. मैं अपने को सामाजिक जिम्मेदारियों और संगठनों में शामिल करने से बचाता हूँ।
 - a. सही, b. कभी-कभी, c. गलत,
- 67. जब मेरे लिए कोई समस्या मुश्किल हो जाती है और उसमें मुझै सधिक काम करना पड़ता है तो मैं यह कोशिश करता है कि:
 - a. दूसरी समस्या ले ली जाय,
 - b. बीनों के बीच का,
 - C. उसी समस्या को फिर से दूसरी तरह से हल किया जाय।
- 68. विना किसी स्पब्ट एवं वास्तविक कारण के मेरी मानसिक स्थिति भावुक हो जाती है और मैं हँसने, चिन्ता करने, तथा गुस्सा होने खुगता हूँ।
 - a. हां, b. कमी-कमी, c. नहीं। (उत्तर पक्ष के कालन 4 का मन्त)
- 69. भेरा दिमाग (Mind) किसी किसी समय उतना अच्छा काम नहीं करता जितना कि वह और दूसरे समय करता है।

 2. सही, b. दोनों के बीच का, c. गसत ।
- 70. मैं सोगों को उनकी इच्छानुसार मिसने का समय देकर उन्हें कृतज्ञ (आभारी) कर प्रसन्त होता हूँ, भले ही बहु मेरे लिए असुबिधाजनक हो ।
- a. हाँ, b. कमी-कभी, c. नहीं।
- 71. 1, 2, 3, 6, 5 के क्रम को बालू रखने के लिए उचित संख्या:
 - a. 10, b. 5, c. 7 t
- 72. कभी कभी मैं बिना किसी खास कारण के, हल्का सर दर्द, चक्कर आना या बेहोश होने सा अनुभव करने सगता हूँ।

 a. हाँ, b. बोनों के बीच का, c. नहीं।
- 73. एक रेस्टरॉ (होटल) में जाकर किसी बेयरा को बिना वजह अधिक परिशान करने के बजाय मैं इन्तजार कर लेना ज्यादा पसन्द कर गा।
 - a. हां, b. कमी-कभी, c. नहीं।
- 74. मैं ज्यादातर सोगों की अपेक्षा "अभी और यहीं" के सिद्धान्त को अपने जीवन में ज्यादा महत्व देता हूँ।
 - a. सही, b. अनिश्चित, c. गसत।

- 75. में किसी भी पार्टी में पसन्द करता हैं:
 - a. उपयोगी बाद-विवाद में शामिल होना,
 - b. दोनों के बीच का,
 - c. लोगों को आराम करते हुए देखना और उन्हें आराम करने देना ।
- 76. पाहे मेर चारों तरफ कितने ही लोग क्यों न हों, मैं अपने मन की बात बेहिचक कह देता हूँ।
 - a. हां, b. कभी-कभी, c. नहीं।
- 77. यदि मेरे लिए बीते हुए समय में जाना संभव हो सके तो मै इनसे मिलना ज्यादा पसन्द कडंगा:
 - क. नेता जी सुमाय चन्द्र बीत,
 - b. अनिश्चित,
 - c. गुद्देव रवीन्द्र नाथ ईगीर-।
- 78. मुझे इस बात से अपने को रोकना है जो कि मैं इसरे की समस्याओं में अधिक पड़कर मुललाने की कोशिश करताहाँ।
 - a. हां, b. कभी-कभी, c. नहीं।
- 79. अगर किसी संग्रहालय या बड़ी दूकान में मुझे काम करना पड़े, तो मैं इसे ज्यादा पसन्द करेगा:
 - a. सजावट आवि की, दप रेखा बनाना,
 - b. दोनों के बीच का,
 - c. एक खर्जाची (cashier) बनना।
- 80. यदि लोग मेरे बारे में अच्छा नहीं सोचड़े वा बुरा मला कहते हैं तो भी मैं अपने दिमाग को शान्त रख सकता हूँ। a. हा, . b. दोनों के बीच का, c. नहीं।
- 81. यदि मेरा कोई पुराना दोस्त मुझसे बेरुखी दिखाता है तो में प्रायः यह:
 - a. सोचता है कि उसका मुख ठीक नहीं है,
 - b. अनिश्चित,
 - c. सोचता हूँ कि मुझसे क्या गलती हो सकती है।
- 82 ज्यादा परेशानी उन सोगों से पैदा होती है, जो :
 - 2. यहले से ही संतोषजनुक तरीकों (कंगों) में भी परिवर्तन एवं सुधार करते हैं,
 - b. अनिश्चित,
 - तए एवं अधिक उपयोगी तरीकों में भी दिलबस्पी महीं
 दिखाते।
- 83. मैं लोगों से आस पास की (स्थानीय) समस्याओं पर बात करना बहुत पसन्द करता हूँ।
 - a. हां, b. कमी-कमी, c. महीं।
- 84. तकत्सुफ करने वाले एवं नियमबद्ध सोगों से केरी नहीं निभ पाती।
 - a सही, b. कमी-कमी, c. गसत।

्यापुर एक है। कारक 🖔 🚁 अस्ति।

* 86. তিখন একা প্ৰাণ কৰি প্ৰিল ভৱাত কৰি ই ভ্ৰমন কল্পী কম ক ভ্ৰমত হ'ল ভাৰত কলে কৰি । ল্লাক্ষ্য চি ক্ষাক্ষ্য কে শ্ৰাক্ত

 भ किसी सग्रद्धाः के भाष्यमा होते का भार मा जिस्मेदारी जल्बी ही दूसरे पर अन्त चता पसन्द कर्मामा जिसका कि मैं सदस्य हूँ।

a. सही, b. दोनो के सीस का, c. गनतः

88. मान लो, अगर एक घड़ी की दोनों सुदयाँ हर बार ठीक 65 मिनट बाद अग्रयम में मिल जाया करती हैं (किसी एक सही घड़ी द्वारा जर्रबने से) तो क्या बह घड़ी

a धीमी चल रही है,

h समय शेष बना रही है

c. सम चल १८१ ४ :

89. में बोरियन महसूम भरता हूं a. अक्सर. b. कमी-कभी. c. सहुत कम ।

9() लॉग गेरे बारे में एंसा कहा करते हैं कि मैं हर काम को अपने तरीके से किया जाना पमन्द करता हूँ।
a. सही, b. कभी-कभी, c. गलत।

91. में अपने को बहुत अधिक जोश में आने से बचाकर रखना बुद्धिमानी समझता है वरना मैं थक जाता है। a हो b कभी-कभी, c नहीं।

में पर पर बोरे में भी खाली समय में :
 क भा भारता है, और अंशम करता है,

b. दोनां क बाब का.

ट कोई धाम लाग करता हूँ।

93 तक लंगित का टीस्ट बनाने में मैं सज़स रहता हूँ और शर्म सङ्ग्रस गरता हैं ।
 48 हो कि कभा-कभी, c. मही।

94. मैं सोचता हूं जो बाते लोग कविता में लिखते हैं उसे बिल्कुल वैसा ही साधारण गदा के रूप में भी लिखा जा सकता है। a. हां. b. कभी-कभी, c. नहीं।

95. पुड़ी ऐसा शक होता है फि जो लोग मुझसे बास्ताना व्यवहार करते हैं वे मेर पीठ पीखे धोखेबाज भी हो सकते हैं। क. हो, आमतौर से,

b. कणो-सभी,

c. मही, शायब ही कभी।

96. मैं सोचता हूँ कि येरे साल भर में हुए अजीबोगरीब तजुबों (अनुभवों) से भी मेरा व्यक्तित्व लगभग वैसा ही रहता है जैसा यह पहले था।

a हां, b कभी-कभी, c. नहीं।

97. मेरे लिए यह होना ज्यादा दिलचस्प होगा :

 जीव वैज्ञानिक के रूप में पौधों का अध्ययन करने वाला, व्यक्ति. M

.. [

.....

b. अनिश्चित,

c. खजांची होना या बीमे का एजेन्ट होना।

98. कुछ बीओं के प्रति जैसे कुछ खास तरह के जानवर, पौधों आदि से मुझे अकारण अरुचि होती है और डर लगता है। a. हां, b. कभी-कभी, c. नहीं!

99. मैं उन तरीकों के बारे में सोचना पसन्द करता हूं जिनसे कि हमारी दुनिया तरक्की करके बदल सकती है।

a. हां, b दोनों के बीच का, c. नहीं

100. मैं ऐसा खेल पसन्द करता हूँ, जहाँ :

टीम में रहना हो या एक पार्टनर मिले,

b. अनिश्चित,

प्रत्येक व्यक्ति अपना अलग-अलग हो ।

101. रात में मैं प्रायः अजीव तरह के और हुँसाने वाले सपने देखता हूँ।

a. हां, b. कभी-कभी, c. नहीं।

102. यदि मैं किसी एकान्त घर में अकेला छोड़ दिया जा उंतो कुछ समय बाद मैं थोड़ी सी बेचैनी और डर सा महसूस करता हूं।

a. हां, b. कमी-कभी, c. नहीं। (उत्तर पन्न के कालम 6 का अन्त)

103. जिन लोगों को मैं वास्तव में नापसन्द करता हूं उन्हें उनका दोस्त बनकर भी घोखा दे सकता हूं।

a. हां, b. कमी-कभी, c. नहीं।

104. नीचे लिखे शब्दों में से कौन सा एक शब्द दूसरे दो शब्दों से मेल नहीं खाता :

a. सोचना, b. देखना, c. सुनना।

105. यदि राम की माँ श्याम के निता की बहन है तो श्याम का राम के निता से क्या सम्बन्ध होगा।

a. प्रचेरा माई, b. मतीजा, c. चाचा।

(परीक्षा का अन्ब)

2. 布	· 布 · · · · · · · · · · · · · · · · · ·
可[1	
3. 事	图
4. \$5	16 事
5. 事[]	17. 年 [] 理
6. 专	19. 市
8. 布[]	20. 年 理[] 21. 年[
9. 本[]	21. 帝
10. 年	23. 年
12. 47	24. क[] ख[]
	ग्रोग

Estd.: 1971

Phone: 364926

National Psychological Corporation

4/230 Kacheri Ghat, AGRA - 282 004 (U. P.) India.

गोवनीय

मेरे जीवन के टयक्तिगत मूल्य

उत्तर-पत्र

नाम ''''	********
आयु	लगभग
महाविद्यालयका नाम	*******
शैक्षिक योग्यता	
वेतनमान :-प्रोफेसर/रोडर/प्रवक्ता :	

विद्य	P	R	E	M	S	H
3	Maria					наварустности посторой праводания
4	THE STATE OF THE S	AMERICAN CONTRACTOR	Territory, extensional		gustoissa NAtorina	-560ficklight south-roun-variabilithe-fishing
5		PROPERTY AND ADDRESS OF THE PARTY AND ADDRESS		COMPAGNIC TO STANCE PARKS	Sufficient And Inspirity in the Inspire	- Мінтинально поделення сплестурав.
6			- Particular programming and pro-		and different state of the stat	-Prosent across valges differen
7		Adeministratives		Complete Addition of Adaptive Schools		
योग				- Marie Control Control	Tribbring (Squardus)	To extension pages and the consistence of the consi

(केसरी प्रेस, बांदा फोन : २२७७२)



डॉ0 एस० पी० कुलशेष्ठ

T.M. No. 458715

FORM	A	(URI	BAN)
SI		S	S

Phone: 364926

कृपया इन्हें मरिये :															
नाम	********	******	********	***		******	•••	,,****		. ******	*****				
आयु	****	'''जन्म	-तिथि	****		*****	*****	*****			_				
कका व वर्ग	********	… रील	ा नं∘"		*****	*****		*****	. 400-	''ता	तेख'	•••	•		
विद्यालय	*********	******			****				****				•••••	÷	
घर का पूरा पता			,				'		· ••••• · gj-v ·	*******					

निर्देश

इस सूची का उद्देश्य तुम्हारे परिवार के सामाजिक-आर्थिक स्तर का निर्धारण करना है। अतः तुम अपने माता/पिता, भाई/बहुन के बारे में सही-सही सूचनायें भरो। विश्वास रखो, तुम्हारे द्वारा दी गयीं सूचनायें गुप्त रखी जावेंगी और किसी को भी नहीं बतायी जावेंगी। इस परिसूची में प्रत्येक प्रश्न के कई सम्भावित उत्तर दिये गये हैं-तुम इनमें से अपने परिवार के ऊपर लागू होने वाले उत्तरों को चुनो और उनके सामने बने कोष्ठों (□) में सही (√) का निशान लगा दो ।

Estd.: 1971

National Psychological Corporation

4/230 Kecheri Ghat, AGRA - 282 004 (U. P.) India.

5 All right received. Reproduction in any form is a violation of Copyright Act.

R

				सबसे				
१. तुम्हारे	: पिता/संरक्षक/माँ/भाई/बहन किस प्रकार के व्यवसाय में कार्य करते हैं ?	संरक्षक पिता	माता	बड़ा भाई	A Park			
(क)	ऐसे व्यवसाय जिनमें उच्च शिक्षा की उपाधि की आवश्यकता पड़ती है।		••••		1 11		N	P
• •	जैसे-वकील, ऐडवोकेट, प्रोफेसर, डॉक्टर व इन्जीनियर आदि ।				4. J			
(ख)					1		6	
	के मालिक/प्रबन्धक आदि।							Ì
(ग)	ऐसे व्यवसाय जिनमें कम से कम स्नातक शिक्षा की आवश्यकता पड़ती है	1			1		\d.	
	जैसे-हाईस्कूल या इंटर कालेज के शिक्षक, मैडीकल रिप्रेजेण्टेटिव आदि।				1		. W.	
(घ)					1			1
	सेना के कमीशण्ड ऑफीसर।				1			
(य)	सामान्य व्यावसायिक या तकनीकी कार्य जैसे प्रायमरी या नसंरी स्कूल							
	के शिक्षक, दुकानदार या सचिव आदि ।				Ŋ			
(र)	कौशलयुक्त व्यवसाय जैसे-काफ्टमैन, लुहार, बढ़ई तथा बिजली वाला							
	आदि ।				V			
(ल)	सेवा व्यवसाय (service worker) जैसे-क्लर्क, टाइपिस्ट, स्टेनो, पुलिस-							
	मैन, फायरमैन तथा सेना के नॉन-कमीशण्ड अफसर आदि।				N			
(व)	मध्यम श्रेणी के कौशलयुक्त व्यवसाय (semi-skilled jobs) जैसे-मशीन-						.No.	
	ऑपरेटर आदि ।				N		1	k
(刊)	बहुत मामूली कार्य (unskilled jobs) जैसे-सेवक, चपरासी, मजदूर,						200	ħ
	कृषक आदि ।				•			
२. तुम्हारे	परिवार के सदस्यों की सबसे अधिक शिक्षा कहाँ तक हुई है ?							
(क)	कालेज शिक्षा के बाद कोई उच्च स्तरीय उपाधि जैसे-Ph. D. अथवा				*			
	D. Litt. आदि ।							
(ख)	स्नातकोतरीय शिक्षा जैसे-M.A., M.Sc., M.Com., M.Sc. (Ag.)							
	आदि ।							
(ग)	स्नातकीय शिक्षा जैसे-B.A., B.Sc., B.Com., B.Sc. (Ag.) आदि ।				0			
(甲)	हायर सैकेण्डरी / इण्टरमीडिएट				7			
(य)	हाई स्कूल				7			
(र)	मिडिल स्कूल				0		1	
(ल)	प्राइमरी स्कूल				1		1	
(व)	अशिक्षित				1		A	
३. तुम्हारे प	रिवार के विभिन्न सदस्यों के पास कौनसी सबसे ऊँची व्यावसायिक							1
उपाधिय								
(事)	स्नातकोत्तरीय शिक्षा के बाद की व्यावसायिक उपाधि जैसे-D.E.V.G.,							1
	या D. M., S. P., D. P. R. आदि ।							
(礓)	स्नातक शिक्षा के वाद की व्यावसायिक उपाधि या डिप्लोमा जैसे-				1			
	B. Ed. आदि ।							
(ग)	हायर सैकेण्डरी / इण्टर के बाद का व्याबसायिक डिप्लोमा जैसे-शिक्षण				1)			
	का डिप्लोमा, इन्जीनियरिंग का डिप्लोमा आदि ।				ĸ.			
	हाई स्कूल शिक्षा के बाद की प्रशिक्षण उपाधि।				2		1/-	
(य)	frf=				2			
	सामान्य प्रशिक्षण उपाधि।	ci .			\mathcal{I}			
(ल)		σ .			7			
४. आपके प	रिवार की कुल मासिक आय कितनी है ?	1			1			
SPICE TO A STORE SHOWING	२००० रुपये से अधिक	1					1	
	१५०१ से २००० रुपये तक					77		A
arminist in the State of the St	१००१ से १५०० रुपये तक			_ _				
(घ)	५०१ से १००० रुपये तक	110						
(य)	२०१ से ४०० रुपये तक	1				1		
(₹)	१०१ से २०० रुपये तक		1 () () () ()			1		
/ _ \		Mark State			40			STEELS.

R

(क) ऐसे व्यवसाय जिनमें उच्च शिक्षा की उपाधि की आवश्यकता पड़ती है। जैसे-विकील, ऐड़बोंकट, प्रोफेसर, डॉक्टर व इन्जीनियर आदि। (ख) उच्च स्तरीय प्रणासनात्मक कार्यकत्ती या किसी बड़े व्यावसायिक संस्थान के मालिक/प्रवच्छक आदि। (ग) ऐसे व्यवसाय जिनमें कम से कम स्तातक शिक्षा की आवश्यकता पड़ती है। जैसे-हाईस्कूल या इंटर कालेज के शिक्षक, मैडीकल रिप्रेजेण्टेटिव आदि। (घ) मध्यम वर्गीय व्यावसायिक कार्यों के मालिक / प्रवच्छक या पार्टनर तथा सेना के कमीशण्ड ऑफीसर। (य) सामात्य व्यावसायिक या तकनीको कार्य जैसे प्रायमरी या नसंरी स्कूल के शिक्षक, इकान्दार या सचिव आदि। (र) कोशलपुक्त व्यवसाय जैसे-कापटमैन, लुहार, बढ़ई तथा विजली बाला आदि। (ल) सेवा व्यवसाय जैसे-कापटमैन, लुहार, बढ़ई तथा विजली बाला आदि। (व) मध्यम श्रेणी के कौशलपुक्त व्यवसाय (service worker) जैसे-कलर्क, टाइपिस्ट, स्टेनो, पुलिस-मैन, फायरमैन तथा सेना के नॉन-कमीशण्ड अफसर आदि। (व) मध्यम श्रेणी के कौशलपुक्त व्यवसाय (semi-skilled jobs) जैसे-मशीन-आंपरेटर आदि। (स) बहुत मामूली कार्य (unskilled jobs) जैसे-सेवक, चपरासी, मजदूर, कृषक आदि। (स) बहुत मामूली कार्य (unskilled jobs) जैसे-सेवक, चपरासी, मजदूर, कृषक आदि। (त) स्वातकोतरीय शिक्षा जैसे-M.A., M.Sc., M.Com., M.Sc. (Ag.) आदि। (व) स्तातकोतरीय शिक्षा जैसे-B.A., B.Sc., B.Com., B.Sc. (Ag.) आदि। (व) हायर सैकेण्डरी / इण्टरमीडिएट (य) हाईस्कृल (र) मिडिल स्कूल (त) अधिक्षित ३. तुम्हारे परिवार के विभिन्न सदस्यों के पास कौनसी सबसे ऊँची व्यावसायिक उपाधियाँ हैं? (क) स्तातकोतरीय शिक्षा के बाद की व्यावसायिक उपाधि जैसे-D.E.V.G.,
(ख) उच्च स्तरीय प्रशासनात्मक कार्यकर्ता या किसी बड़े व्यावसायिक संस्थान के मालिक/प्रवश्यक आदि। (ग) ऐसे व्यवसाय जिनमें कम से कम स्नातक शिक्षा की आवष्यकर्ता पड़ती हैं। जैसे-हाईस्कूल या इंटर कालेज के शिक्षक रिप्रेजेच्टेटिब आदि। (घ) मध्यम वर्गीय व्यावसायिक कार्यों के मालिक / प्रबन्धक या पार्टनर तथा सेना के कमीगण्ड ऑफीसर। (य) सामान्य व्यावसायिक या तकनीकी कार्य जैसे प्रायमरी या नसंरी स्कूल के शिक्षक, दुकानदार या सचिव आदि। (र) कौशलयुक्त व्यवसाय जैसे-काण्टमेन, लुहार, बढ़ई तथा विजली वाला आदि। (ल) सेवा व्यवसाय (service worker) जैसे-कनकं, टाइपिस्ट, स्टेनो, पुलिस-मिन, फायरमेन तथा सेना के नॉन-कमीगण्ड अफसर आदि। (व) नध्यम श्रेणी के कौशलयुक्त व्यवसाय (semi-skilled jobs) जैसे-मशीन-आपरेटर आदि। (स) बहुत मासूली कार्य (unskilled jobs) जैसे-सेवक, चपरासी, मजदूर, कृषक आदि। (स) बहुत मासूली कार्य (unskilled jobs) जैसे-सेवक, चपरासी, मजदूर, कृषक आदि। र. तुम्हारे परिवार के सदस्यों की सबसे अधिक शिक्षा कहाँ तक हुई है? (क) कालेज शिक्षा के बाद कोई उच्च स्तरीय उपाधि जैसे-Ph. D. अथवा D. Litt. आदि। (ख) स्नातकीनरीय शिक्षा जैसे-B.A., B.Sc., B.Com., B.Sc. (Ag.) आदि। (व) हायर सैकेण्डरी / इण्टरमीडिएट (य) हाई स्कूल (र) मिडिल स्कूल (व) अशिक्षित ३. तुम्हारे परिवार के विभिन्न सदस्यों के पास कौनसी सबसे ऊँची व्यावसायिक उपाधियों हैं? (क) स्नातकोत्तरीय शिक्षा के बाद की व्यावसायिक उपाधियों हैं?
(ग) ऐसे व्यवसाय जिनमें कम से कम स्नातक शिक्षा की आवश्यकता पड़ती है। जैसे-हाईक्कूल या इंटर कालेज के शिक्षक, मैडीकल रिप्रेजेण्टेटिव आदि ।
जैसे-हाईस्कूल या इंटर कालेज के जिक्षक, मैडीकल रिप्रेजेण्टेटिव आदि ।
सेना के कमीणण्ड ऑफीसर। (य) सामात्य व्यावसायिक या तकनीकी कार्य जैसे प्रायमरी या नर्सरी स्कूल के शिक्षक, दुकानदार या सचिव आदि। (र) कीणलयुक्त व्यवसाय जैसे-काएटमैन, लुहार, बढ़ई तथा विजली बाला आदि। (ल) सेवा व्यवसाय (service worker) जैसे-कलकं, टाइपिस्ट, स्टेनो, पुल्सि-मैन, फायरमैन तथा सेना के नॉन-कमीणण्ड अफसर आदि। (व) मध्यम श्रेणी के कीणलयुक्त व्यवसाय (semi-skilled jobs) जैसे-मणीन-ऑपरेटर आदि। (स) बहुत मामूली कार्य (unskilled jobs) जैसे-सेवक, चपरासी, मजदूर, कृषक आदि। र. तुम्हारे परिवार के सदस्यों की सबसे अधिक शिक्षा कहाँ तक हुई है ? (क) कालेज शिक्षा के बाद कोई उच्च स्तरीय उपाधि जैसे-Ph. D. अथवा D. Litt. आदि। (ख) स्नातकोतरीय शिक्षा जैसे-M.A., M.Sc., M.Com., M.Sc. (Ag.) आदि। (ख) स्नातकोतरीय शिक्षा जैसे-B.A., B.Sc., B.Com., B.Sc. (Ag.) आदि। (ख) हायर सैकेण्डरी / इण्टरमीडिएट (य) हाई स्कूल (र) मिडिल स्कूल (त) प्राइमरी स्कूल (व) अशिक्षित ३. तुम्हारे परिवार के विभिन्न सदस्यों के पास कौनसी सबसे ऊँची व्यावसायिक उपाधियाँ हैं ? (क) स्नातकोत्तरीय शिक्षा के बाद की व्यावसायिक उपाधि जैसे-D.E.V.G.,
के शिक्षक, दुकानदार या सचिव आदि। (र) कौशलयुक्त व्यवसाय जैसे-कापटमैन, लुहार, बढ़ई तथा विजली वाला आदि। (ल) सेवा व्यवसाय (service worker) जैसे-वलकं, टाइपिस्ट, स्टेनो, पुलिस-मैन, फायरमैन तथा सेना के नाँन-कभीशण्ड अफसर आदि। (व) मध्यम श्रेणी के कौशलयुक्त व्यवसाय (semi-skilled jobs) जैसे-मशीन-आँपटेटर आदि। (स) बहुत मामूली कार्य (unskilled jobs) जैसे-सेवक, चपरासी, मजदूर, कृषक आदि। २. तुम्हारे परिवार के सदस्यों की सबसे अधिक शिक्षा कहाँ तक हुई है ? (क) कालेज शिक्षा के बाद कोई उच्च स्तरीय उपाधि जैसे-Ph. D. अथवा D. Litt. आदि। (ख) स्नातकोतरीय शिक्षा जैसे-M.A., M.Sc., M.Com., M.Sc. (Ag.) आदि। (ग) स्नातकीय शिक्षा जैसे-B.A., B.Sc., B.Com., B.Sc. (Ag.) आदि। (घ) हायर सैकेण्डरी / इण्टरमीडिएट (य) हाई स्कूल (र) मिडिल स्कूल (त) प्राइमरी स्कूल (व) अशिक्षित ३. तुम्हारे परिवार के विभिन्न सदस्यों के पास कौनसी सबसे ऊँची व्यावसायिक उपाधियाँ हैं ? (क) स्नातकोत्तरीय शिक्षा के बाद की व्यावसायिक उपाधि जैसे-D.E.V.G.,
आदि। (ल) सेवा व्यवसाय (service worker) जैसे-क्लर्क, टाइपिस्ट, स्टेनो, पुलिस- मैन, फायरमैन तथा सेना के नॉन-कमीणण्ड अफसर आदि। (व) मध्यम श्रेणी के कौशलयुक्त व्यवसाय (semi-skilled jobs) जैसे-मशीन- आँपरेटर आदि। (स) बहुत मामूली कार्य (unskilled jobs) जैसे-सेवक, चपरासी, मजदूर, कृषक आदि। २. तुम्हारे परिवार के सदस्यों की सबसे अधिक शिक्षा कहाँ तक हुई है? (क) कालेज शिक्षा के बाद कोई उच्च स्तरीय उपाधि जैसे-Ph. D. अथवा D. Litt. आदि। (ख) स्नातकोत्तरीय शिक्षा जैसे-M.A., M.Sc., M.Com., M.Sc. (Ag.) आदि। (ग) स्नातकीय शिक्षा जैसे-B.A., B.Sc., B.Com., B.Sc. (Ag.)आदि। (घ) हायर सैकण्डरी / इण्टरमीडिएट (य) हाई स्कूल (र) मिडिल स्कूल (व) अशिक्षित ३. तुम्हारे परिवार के विभिन्न सदस्यों के पास कौनसी सबसे ऊँची व्यावसायिक उपाधियाँ हैं? (क) स्नातकोत्तरीय शिक्षा के बाद की व्यावसायिक उपाधि जैसे-D.E.V.G.,
मैन, फायरमैन तथा सेना के नाँन-कभीणण्ड अफसर आदि ।
अॉपरेटर आदि। (स) बहुत मामूली कार्य (unskilled jobs) जैसे-सेवक, चपरासी, मजदूर, कृषक आदि। र. जुम्हारे परिवार के सदस्यों की सबसे अधिक शिक्षा कहाँ तक हुई है ? (क) कालेज शिक्षा के बाद कोई उच्च स्तरीय उपाधि जैसे-Ph. D. अथवा D. Litt. आदि। (ख) स्नातकोतरीय शिक्षा जैसे-M.A., M.Sc., M.Com., M.Sc. (Ag.) आदि। (ग) स्नातकीय शिक्षा जैसे-B.A., B.Sc., B.Com., B.Sc. (Ag.) आदि। (घ) हायर सैकेण्डरी / इण्टरमीडिएट (य) हाई स्कूल (र) मिडिल स्कूल (ल) प्राइमरी स्कूल (व) अशिक्षित ३. तुम्हारे परिवार के विभिन्न सदस्यों के पास कौनसी सबसे ऊँची व्यावसायिक उपाधियाँ हैं ? (क) स्नातकोत्तरीय शिक्षा के बाद की व्यावसायिक उपाधि जैसे-D.E.V.G.,
कृषक आदि। २. तुम्हारे परिवार के सदस्यों की सबसे अधिक शिक्षा कहाँ तक हुई है ? (क) कालेज शिक्षा के बाद कोई उच्च स्तरीय उपाधि जैसे-Ph. D. अथवा D. Litt. आदि। (ख) स्नातकोतरीय शिक्षा जैसे-M.A., M.Sc., M.Com., M.Sc. (Ag.) आदि। (ग) स्नातकीय शिक्षा जैसे-B.A., B.Sc., B.Com., B.Sc. (Ag.) आदि। (घ) हायर सैकेण्डरी / इण्टरमीडिएट (य) हाई स्कूल (र) मिडिल स्कूल (ल) प्राइमरी स्कूल (व) अशिक्षित ३. तुम्हारे परिवार के विभिन्न सदस्यों के पास कौनसी सबसे ऊँची व्यावसायिक उपाधियाँ हैं ? (क) स्नातकोत्तरीय शिक्षा के बाद की व्यावसायिक उपाधि जैसे-D.E.V.G.,
(क) कालेज शिक्षा के बाद कोई उच्च स्तरीय उपाधि जैसे-Ph. D. अथवा D. Litt. आदि । (ख) स्नातकोतरीय शिक्षा जैसे-M.A., M.Sc., M.Com., M.Sc. (Ag.) आदि । (ग) स्नातकीय शिक्षा जैसे-B.A., B.Sc., B.Com., B.Sc. (Ag.) आदि । (घ) हायर सैकेण्डरी / इण्टरमीडिएट (य) हाई स्कूल (र) मिडिल स्कूल (त) प्राइमरी स्कूल (व) अशिक्षत ३. तुम्हारे परिवार के विभिन्न सदस्यों के पास कौनसी सबसे ऊँची व्यावसायिक उपाधियाँ हैं ? (क) स्नातकोत्तरीय शिक्षा के बाद की व्यावसायिक उपाधि जैसे-D.E.V.G.,
D. Litt. आदि । (ख) स्नातकोतरीय शिक्षा जैसे-M.A., M.Sc., M.Com., M.Sc. (Ag.) आदि । (ग) स्नातकीय शिक्षा जैसे-B.A., B.Sc., B.Com., B.Sc. (Ag.) आदि । (घ) हायर सैकेण्डरी / इण्टरमीडिएट (य) हाई स्कूल (र) मिडिल स्कूल (ल) प्राइमरी स्कूल (व) अशिक्षित ३. तुम्हारे परिवार के विभिन्न सदस्यों के पास कौनसी सबसे ऊँची व्यावसायिक उपाधियाँ हैं ? (क) स्नातकोत्तरीय शिक्षा के बाद की व्यावसायिक उपाधि जैसे-D.E.V.G.,
(ख) स्नातकोत्तरीय शिक्षा जैसे-M.A., M.Sc., M.Com., M.Sc. (Ag.) आदि। (ग) स्नातकीय शिक्षा जैसे-B.A., B.Sc., B.Com., B.Sc. (Ag.) आदि। (घ) हायर सैकेण्डरी / इण्टरमीडिएट (य) हाई स्कूल (र) मिडिल स्कूल (ल) प्राइमरी स्कूल (व) अशिक्षित ३. तुम्हारे परिवार के विभिन्न सदस्यों के पास कौनसी सबसे ऊँची व्यावसायिक उपाधियाँ हैं ? (क) स्नातकोत्तरीय शिक्षा के बाद की व्यावसायिक उपाधि जैसे-D.E.V.G.,
आदि। (ग) स्नातकीय शिक्षा जैसे-B.A., B.Sc., B.Com., B.Sc. (Ag.) आदि। (घ) हायर सैकेण्डरी / इण्टरमीडिएट (य) हाई स्कूल (र) मिडिल स्कूल (ल) प्राइमरी स्कूल (व) अशिक्षित ३. तुम्हारे परिवार के विभिन्न सदस्यों के पास कौनसी सबसे ऊँची व्यावसायिक उपाधियाँ हैं ? (क) स्नातकोत्तरीय शिक्षा के बाद की व्यावसायिक उपाधि जैसे-D.E.V.G.,
(घ) हायर सैंकेण्डरी / इण्टरमीडिएट (य) हाई स्कूल (र) मिडिल स्कूल (ल) प्राइमरी स्कूल (व) अशिक्षित ३. तुम्हारे परिवार के विभिन्न सदस्यों के पास कौनसी सबसे ऊँची व्यावसायिक उपाधियाँ हैं ? (क) स्नातकोत्तरीय शिक्षा के बाद की व्यावसायिक उपाधि जैसे—D.E.V.G.,
(य) हाई स्कूल (र) मिडिल स्कूल (ल) प्राइमरी स्कूल (व) अशिक्षित ३. तुम्हारे परिवार के विभिन्न सदस्यों के पास कौनसी सबसे ऊँची व्यावसायिक उपाधियाँ हैं ? (क) स्नातकोत्तरीय शिक्षा के बाद की व्यावसायिक उपाधि जैसे—D.P.V.G.,
(र) मिडिल स्कूल (ल) प्राइमरी स्कूल (व) अशिक्षित ३. तुम्हारे परिवार के विभिन्न सदस्यों के पास कौनसी सबसे ऊँची व्यावसायिक उपाधियाँ हैं? (क) स्नातकोत्तरीय शिक्षा के बाद की व्यावसायिक उपाधि जैसे—D.E.V.G.,
(ल) प्राइमरी स्कूल (व) अशिक्षित 3. तुम्हारे परिवार के विभिन्न सदस्यों के पास कौनसी सबसे ऊँची व्यावसायिक उपाधियाँ हैं ? (क) स्नातकोत्तरीय शिक्षा के बाद की व्यावसायिक उपाधि जैसे—D.E.V.G.,
(व) अशिक्षित ३. तुम्हारे परिवार के विभिन्न सदस्यों के पास कौनसी सबसे ऊँची व्यावसायिक उपाधियाँ हैं ? (क) स्नातकोत्तरीय शिक्षा के बाद की व्यावसायिक उपाधि जैसे—D.E.V.G.,
३. तुम्हारे परिवार के विभिन्न सदस्यों के पास कौनसी सबसे ऊँची व्यावसायिक उपाधियाँ हैं ? (क) स्नातकोत्तरीय शिक्षा के बाद की व्यावसायिक उपाधि जैसे-D.E.V.G.,
उपाधियाँ हैं ? (क) स्नातकोत्तरीय शिक्षा के बाद की व्यावसायिक उपाधि जैसे–D.E.V.G.,
(क) स्नातकोत्तरीय शिक्षा के बाद की व्यावसायिक उपाधि जैसे-D.E.V.G.,
या D. M., S. P., D. P. R. बादि।
(ख) स्नातक शिक्षा के वाद की व्यावसायिक उपाधि या डिप्लोमा जैसे— B. Ed. आदि।
그리고 있는 사람이 가까요 전하다 이 그리고 그 사람이 되었다. 그리고 있는 것은 사람이 나는 아니라 하는데 하는데 하는데 하는데 모든데 모든데 모든데 모든데 모든데 되었다. 선택 중심대장
(ग) हायर सैकेण्डरी / इण्टर के बाद का व्याबसायिक डिप्लोमा जैसे-शिक्षण
का डिप्लोमा, इन्जीनियरिंग का डिप्लोमा आदि । 🖂 🖂 🖂
(घ) हाई स्कूल िक्सा के बाद की प्रिक्षिण उपाधि।
(र) मामूज प्रविध्या ज्याचि ।
(हा) कोई भी प्राण्यामा ज्ञानस्मानिक ज्ञानिक को के .
(ल) कोई मा प्रायक्षण व्यावसायक उपाधि नहीं है। ४. आपके परिवार की कुल मासिक आय कितनी है ?
(क) २००० रुपये से अधिक (ख) १४०१ से २००० रुपये तक
(स) १००१ से १५०० हम्मो तक
(घ) ५०१ से १००० हुए। नज
(ਹ) 209 ਦੇ ਪਰਨ ਲਈ ਰਲ
(र) १०१ से २०० रुपये तक
(ल) ५० से १०० रुपये तक

प्र. आपके परिवार पर कितना रूपया उद्यार है				एकदम जरूरत पड़ने पर	
रुपया	बैंक में	पोस्ट-ऑफिस में	उधार	कितना धन इकट्टा	
274 1	जमा	जमा		कर सकते हैं	
(क) २००० से अधिक					
(स्त्र) १५०१ से २००० तक	0				
(ग) १००१ से १५०० तक					
(घ) ५०१ से १००० तक, ा अप प्रत्य	Or r	m D	P		
(य) २०१ से ५०० तक					
(र) १०१ से २०० तक		0		경기 2 및 기능하다 22	
(ल) ४० से १०० तक			9		
(व) ४० से कम		무		T	
(स) बिल्कुल नहीं			—		
६. आपका मकान—					
(क) स्वयं का है। (ख) स्वयं किराये पर हैं परन्तु घर का	प्रकात किराये	पर उठा रखा है			
(ग) अवने मकान का एक भाग किराये	पर उठा र खा	है।			
(व) अपना मकान नहीं है किराये पर र	हते हैं।			9.,	
७. आपका मकान किस प्रकार का है?					
(क) कई मंजिल वालायाबड़ा बंगला।	iy v - 2 0	AND AS A	PARK KIT	A market	
(ख) छोटा बंगला।					
(ग) पनका मकान।					
(घ) साधारण मकान।					
द. स्कूल में—		ett nerk a	grand talks to	□ op op	
(क) तुम्हारी फीस माफ है।				<u> </u>	
(छ) तुम्हारे भाई-बहनों की फीस माफ	ह। है।		11 (de 1)		
(ग) फीस माफ कराने की जरूरत नही	ਦ । ਜ਼ੜ੍ਹੇ ਤੋਂ ?			1	
 तुम्हारे भाई-बहन किस प्रकार के स्कूल में 	पढ़त हः ध्यम कास्कल		3.43		
(क) कॉन्वेण्ट स्कूल या अन्य अंग्रेजी मा	व्यम नगर पूरा				
(ख) राजकीय स्कूल			***	(7)	
(ग) राजकीय सहायता प्राप्त स्कूल			* 7.7		
(घ) प्राइवेट स्कूल	सते हैं ?				
१०. तुम्हारे घर में कौन-कौन से नौकर कार्य क (क) ऑफिस में कार्य करने वाले चपर	. २० सी			E .	
(ख) रसोईया					
(ग) आया (घ) माली			17 (d. 17 (d. 18))		
(य) बर्तन मॉंजने वाला			n dinesi		
(र) सामान्य घरेलू नौकर					
(ल) कौई नौकर नहीं है।			that start		
११. तुम्हारे पास कितने जोड़े—		हो से सम	३ से ५ तव	५ से अधिक	
(क) कपड़े हैं					
(ख) जूते हैं	्र जो कीतें पीन	द हों उनके साम	ति दिये गये व	होड्डों में (√) का निशान	
(ख) जूते हैं १२. तुम्हारे घर में नीचे लिखी चीजों में से	जा चाण लाथू	and are set is	Parish Fr		50 at 1
लगाइये :	उद्र िरव	शा 🗆 साइकिल			
, \ \C	7 (10.11) 2.		होन 🗀	The second secon	
: , > <u>></u> IIS 1 CC			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
ं _ \ _> लाते चा हो होत्र ग्रह्म त्र	7 3144 21	ৰ 🗀			
(य) उत्तम कुर्सीमेज ☐ साधारण इ	हुसीमेज 🗆		ा वेजर-		
(य) उत्तम कुर्सीमेज □ साधारण इ (र) बिजली का स्टोन □ वाटर	बौइलर 🗆	गस का चूल्हा			
		Black and a second second			

R	(व) वैक्यूमक्लोनर□, कॉफी परक्यूलर □, बिजली का औटोमैंटिक प्रेस	
	□, साधारण प्रेस □,	
***	(स) विजलीका पंखा 🗀, मिक्सर (mixer) 🗀, ग्राइण्डर 🗀, सिलाई की	
****	मशीन □,	
	(श) कैमरा 🗀, टैलिस्कोप 🗀, डिनर सैंट 🗀, टी सैंट 🗀' लैमन सैंट 🗀,	
	पिकनिक सैंट □,	
	(ह) डाइनिंगरूम □, ड्रॉइंग रूम □, अध्ययन कक्ष □, शयन कक्ष □,	
***	स्नानगृह □, गौचालय □।	
*	१३. तुम्हारे घर में किस प्रकार के समाचार पत्र/पत्रिका आती हैं ?	
•		
****	(क) दैनिक (ख) साप्ताहिक	
	(ग) मासिक	
***	(घ) त्रैमासिक	0000
***	(य) अद्धंवार्षिक	
	(य) अञ्चयापम (र) वार्षिक	
	(र) वापक (ल) कभी-कभी आती हैं	
	(ल) कभी नहीं	
• * •		
*****	१४. तुम्हारे मुहल्ले या नगर में उत्सव होने पर तुम्हारे परिवार के सदस्यों को बूलाया जाता है ?	
***1	(क) अक्सर बुलाया जाता है।	
	(ख) कभी-कभी बुलाया जाता है।	
	(ग) कभी नहीं बुलाया जाता है।	
	१५. तुम/तुम्हारे माता-पिता आदि किसके सदस्य/पदाधिकारी हैं ?	
	(क) सामाजिक संस्थायें	
	(ख) व्यावसायिक संस्थायें	
•••	(ग) अन्य संस्थायें	
	(घ) किसी संस्था के नहीं	
,	१६. तुम जिस मुहल्ले में रहते हो उसमें अधिकतर—	
	(क) बड़े-बड़े लोग रहते हैं।	
•••	(ख) मध्यम वर्गीय लोग रहते हैं।	
	(ग) क्लर्क या दुकान-सहायक जैसे लोग रहते हैं।	
	(घ) साधारण वर्ग के लोग रहते हैं।	
50 - 4	(य) निम्न स्तरीय लोग रहते हैं।	
	१७. तुम्हारे बारे में अधिकतर लोग सोचते हैं कि तुम—	
	१७. तुम्हार बार म आवकतर लाग तापत ह गण पुग— (क) अत्यधिक प्रतिष्ठित परिवार के हो।	
	(क) अत्याधक प्रतिष्ठित परिवार के हो।	
	(स) मुख्य वर्गीय परिवार के हो।	
	(म) मध्यम वर्गाय परिवार के हो।	- 1944 S. 194 5 (
	(य) निम्न स्तरीय परिवार के हो।	AF Fage 🛴
	१८. क्या तुम्हारा परिवार जाति प्रथा में विश्वास रखता है ?	
	(क) हाँ □ (ख) नहीं □ (ग]) आनाश्चत □	
-1	१९. यदि तुम्हें घर से बहुत दूर पढ़ने या नौकरी करने जाना पड़े तो क्या तुम्हारे	Livali
	माता-पिता तुम्हें भेजना पसन्द करेंगे ?	
	(क)हाँ 🖂 (ख)नहीं 🖂 (ग)अनिश्चित 🖵	
	२०.क्या तुम नयी चीजों/नवीन विधियों को एकदम स्वीकार कर सकते हो ?	
	े (क)हां 🖂 (ख) नहीं 🖂 (ग) अनिश्चित 🖂	THE STREET
	ALL STREET OF THE PART OF THE	A CONTRACTOR

Total Score=[] Category[]

मानसिक योग्यता की सामूहिक परीक्षा (72)

o deletti police indonése, elektrika je police in

(यह युस्तिका किसी अनाधिकारी के हाथों में न जानी चाहिए)।

(बावृत्ति 84)

इस प्रश्न पुस्तिका के सभी उत्तरों को केवल उत्तर-पत्र पर ही लिखना होगा। इस परीक्षा पुस्तिका पर कुछ विकास या चिह्न न बनाना चाहिए।

प्रारम्बिक बारेग

हम अपनी सामान्य मानसिक योग्यता की परीक्षा करना चाहते हैं। केवल 20 मिनट का समय है। आपके सामने 100 प्रक्रन आयेंगे।

इस परीक्षा के आरम्भ होने से पहले उसमें दिए गए सब प्रकार के प्रश्तों और उनके उत्तर लिखने की विधि को उदाहरण देकर समझाया जायेगा। हमें आशा है कि आपको उचित सफलता मिलेगी। सभी प्रका साधारण भाषा में हैं। प्रत्येक प्रश्न के दोनों और प्रश्न की कमिक संख्या छपी है। प्राय: तभी प्रश्नों के कुछ सम्भव वैकल्पिक उत्तर भी दिशे गए हैं। हर एक वैकल्पिक उत्तर की संख्या भी उसके साथ छपी है। आपको हर प्रथन को समझकर केवल उसके सही उत्तर को चुनना है, तथा उस उत्तर की संस्था को तत्काल उत्तर पत्र के कम अनुसार उचित स्थान पर लिखना है। ब्रत्धेक प्रशन का उत्तर संख्या में देना है। अर्थात् अकारों में कुछ नहीं लिखना है।

ध्यान रखें प्रत्येक प्रवन का एक ही ठीक उत्तर है। सबब अधिक नहीं है। सब प्रवर्नों का सही उत्तर बहुत कम लोग दे सकते हैं। जतएव आपको खूब शीझता से काम करना चाहिए और आंधक से अधिक सही प्रश्नों के उत्तर देने का प्रयास करना चाहिए। अगर कोई प्रका आपको अधिक कठिन लगता है, तब उस पर सोच विचार में अधिक समय नष्ट न करें। उसे छोड़ दें और उत्तर पत्र के विश्वित स्थान पर एक कोने में हरका सा चिह्न बना दें, और अगले प्रश्न का उत्तर सोचवर तुरन्त उसके उचित स्थान पर लिखें। यदि अन्त में समय हो, तो अपने उत्तरों को दोहरा लीजिए तथा छूटे हुए प्रश्नों का हल सोचकर लिखिए।

आरम्भ करते की आज्ञा सुनकर ही आप प्रश्नों को पढ़ने और उत्तर लिखने का कार्य आरम्भ करें, और

जितनी मीधता से हो सके साफ उत्तर निविए।

एक बात और ध्यान रिलिए इस प्रश्न पुस्तिका पर आपको कुछ नहीं लिखना है, और न इस पर किसी

प्रकार का चिह्न ही लंगाना है। केवन उत्तर-पत्र पर यथोचित स्थान में उत्तर की संख्या ही लिखनी है।



	San V. Markey	बिङ	•	liŝ	बोड	नोड	ने	i s
. कुल नोह	·		इतम्ब र			Ne		,
l. Poor S fa	2. V.dull ਹਵਿਲ੍ਹ ਸੱਫ	3. Dull 屯	4. Low अम ुश्रम	5, Average सौसत	6. Bright	ਪ Superior ਤਜ਼ਤ	४ Super अञ्चलम	9. Excellent मीलाबाब

अभ्यास के लिए उदाहरण

इस परीक्षा में जिस प्रकार के प्रश्न पूछे गये हैं, उन के दो-दो उदाहरण नीचे दिये गये हैं इन में से पहले का उत्तर भी उत्तर पत्र पर छपा है किन्तु दूसरे का उचित उत्तर देने का अभ्यास आप सरलता से करें सकेंगे।

बाइये वब हम इन को पढ़ें और इनको हल करने की विधि समझें उदाहरण	संख्या •
1. बुझ का सर्व है, (1) चेड़, (2) असीन, (3) धास, (4) फस 2. आशा का अर्थ है, (1) अठोर, (2) स्थानी, (3) निर्वेश, (4) थालन	(1) (2)
3. अच्छाई का उत्टा है, (1) बालाकी, (2) बुराई, (3) लड़ाई, (4) नचता	(3)
4. जीवन का उस्टा है, (1) निराशा, (2) आनन्व, (3) मिट्टी, (4) मृत्यु	(4)
5. नीचे दिवे संख्या कम के अनुसार बागे की एक संख्या उत्तर-पत्र बर सिक्षें : 1, 2, 3, 4, 5, 6,	(5)
6 मीचे दिये संख्या क्रम के अनुसार आगे की एक संख्या उत्तर-पत्र पर लिखें :	
1, 14, 13, 12, 11, 10	(6)
7. इत पांच शब्दों में से बेमेल की संख्या उत्तर-पत्र पर लिखें :— (1) क्षोड़ा, (2) मुखां, (3) हाथी, (4) मोर, (5) सक्का	(7)
8. इन पाँच शब्दों में से बेमेल शब्द की संख्या उत्तर-पत्र पर लिखें :— (1) निवस्था, (2) संख्यक, (3) उपन्यास, (4) कविता (5) स्तम्म	(8)
9. छाता एक सामदायक वस्तु है, इसलिए कि वह (1) कपड़े का बनता है।	
(2) को एवं व कर्ष के कवाना है। (3) यह सब देशों में मिलता है।	(9)
10. लोग विल्लियों इसलिए पालते हैं, कि (1) उनकी खाल कोमल होती है। (2) वे कुतों से करती हैं। (3) वे चूहे पकड़ती हैं।	(10)
11. कनल : लिखना : चाकु : (1) जान, (2) काटना, (3) सोहा, (4) खाना	(11)
12. बोर : बावस :: हलवा : (1) बूरो, (2) वही, (3) वृत्र, (4) सूची	(12)
13. हरदेव से सुरजीत लम्बा है, किन्तु हरदेव से जगजीत नाटा है तो सब से लम्बा कीन है है	
(1) हरवेब, ्र (2) सुरजीत, ्र (3) जनजीत ।	(13)
14. राम के पीछे गोविन्द खड़ा है, गोविन्द के पीछे चन्दन खड़ा है, और हरि के पीछे चन्दन	1777
सड़ा है, सो सब के पीछे कौन सड़ा है ।	714
(1) राम. (2) गोविन्द, (3) चनवत, (4) हरि	(14)

परीक्षा आरम्म होने से पहले अपनी सभी शंकायें पूछ लीजिये।

		(ख) नहा			
९. यदि तुम्हें घर	से बहुत	दूर पढ़न या	नाकरा करन प	માના મુક્લા મ	an Gastr
माता-पिता त	न्हें भेजन	। पसन्द करग	1		
/ ਗ \ ਈ	—	(ख) नहीं		(ग) आनोक	रत 🔾
० क्या तम नयी	चाजा/न	वान विशिध	का एकदम स्वा	HOLL DE LINE	1 61 5
(क) हां	_	(ख) नही		(ग) अनिषि	वत 🗀

जब तक कहा न जाय

Care California de Marie de Colon por de la

274 an ar ar and mark the Carlotte

प्रशा गत उलांदिये

जोड़ नोड इतम्ब मेणी..... परीइक द्वाल भोड 6. 7. 5, 3. V.dult Dull Low Average Bright Superior V Super Excellent प्रिक्त मंद्र यन कुछत सीमत तीव उत्तम बासुतम प्रतिभावाय Poor

R

13. एहमद स अनवर नाटा ह, किन्तु अनवर स हमाद नाटा ह, ता सबस नाटा कान है ?	(1) (2) (3) (4) (5)
2 कुपा का अर्थ है, (1) धर्म, (2) कर्म, (3) बया, (4) बान पुलिस धाना, चौबीस घण्टे खुला रहता है, वयोंकि (1) पुलिस अधिकारियों को 24 घण्टे का बेतन मिलता है। (2) छूटमार और दंगे की घटनाएँ किसी समय हो सकती हैं। (3) पुलिस बालों को दिन रात की बॉबर्य मिलती हैं। 4. मोटा का उल्टा है, (1) छोटा, (2) पतला, (3) हरका, (4) परिश्वादी 5. घर का अर्थ है, (1) बोबी, (2) परिवार, (3) मकान, (4) खर्च 6. इन पाँच घण्टों में से बे-मेल गण्ड का अंक उत्तर पत्र पर लिखें— (1) छोट, (2) चम्मचा, (3) ध्याला, (4) पतीला, (5) केला 7. भीतर का उल्टा है, (1) बाहर, (2) खुला, (3) मैधान, (4) तीख 8. विद्या का अर्थ है, (1) पुस्तक, (2) बान, (3) रहस्य, (4) विज्ञान 9. लक्ष्मण की आगु से सीता बड़ी है, परन्तु लक्ष्मण से मरत छोटा है। तत्र इनमें सबसे बढ़ा कौन है? (1) लक्ष्मण, (2) भरत, (3) सीता 10. साधु का उल्टा है, (1) मगड़ा, (2) बुट्ट, (3) मजन, (4) लड़का 11. इन पाँच गण्टों में से बेमेल शब्द का अंक उत्तर-पत्र पर लिखें:— (1) मोट्रर, (2) साइकिल; (3) तांचा, (4) तार, (4) रेलगाड़ो 12. विष का उल्टा है, (1) मीठा, (2) औषध, (5) अमुत, (4) शिख 13. ऐहमद से जनवर नाटा है, किन्तु अनवर से हमीद नाटा है, तो सबसे नाटा कान है? (1) ऐहमद, (2) हसीद, (3) अनवर 14. बलवान का अर्थ है, (1) मोटा, (2) धमबान, (3) प्रधान, (4) गिक्सवान 15 इत पाँच गण्डों में से बेमेल गण्ड का अंक उत्तर-पत्र पर लिखें:—	(2) (3) (4)
3 पुलिस थाना चौबीस घण्टे खुला रहता है, वयोंकि (1) पुलिस अधिकारियों को 24 घण्टे का बेतन मिलता है। (2) लूटमार और दंगे की घटनाएँ किसी समय हो सकती हैं। (3) पुलिस बालों को दिन रात की विद्यों मिलती हैं। 4. मोटा का उल्टा है, (1) छोटा, (2) पतला, (3) हल्का, (4) परिश्वर्मी 5. घर का जर्थ है, (1) बोबी, (2) परिवार, (3) मकाल, (4) खर्च 6. इन पाँच शब्दों में से बे-मेल शब्द का अंक उत्तर पत्र पर लिखें— (1) डलेट, (2) चस्मचा, (3) प्याला, (4) पतीला, (5) केला 7. भीतर का उल्टा है, (1) पहतक, (2) खुला, (3) सैदान, (4) तीक्ष 8. विद्या का अर्थ है, (1) पुस्तक, (2) बान, (3) रहस्य, (4) विज्ञान 9. लक्ष्मण की आयु से सीता बड़ी है, परन्तु लक्ष्मण से भरत छोटा है। तत इनमें सबसे बढ़ा कीन है? (1) लक्ष्मण, (2) भरत, (3) सीता 10. साधु का उल्टा है, (1) प्रावड़ा, (2) बुटट, (3) भजन, (4) लड़का 11. इन पाँच शब्दों में से बेमेल शब्द का अंक उत्तर-पत्र पर लिखें:— (1) मोटर, (2) साइकिल, (3) तांचा, (4) तार, (4) रेलगाड़ी 12. विष का उल्टा है, (1) मीठा, (2) औषध, (5) अमृत, (4) शिव 13. सेहमद से जनवर नाटा है, किन्तु अनवर से हमीद नाटा है, तो सबसे नाटा का कीन है? (1) सेहस्य, (2) हमीद, (3) अनवर 14. बलवान का अर्थ है, (1) मोटा, (2) धनवान, (3) प्रधान, (4) शाक्तवान 15 इत पाँच शब्दों में से बेमेल शब्द का अंक उत्तर-पत्र पर लिखें:—	(3) (4)
मिलता है। (2) लूटमार और वंगे की घटनाएँ किसी समय हो सकती हैं। (3) पुलिस वालों को दिन रात की विदयों मिलती हैं। 4. मोटा का उल्टा है, (1) छोटा, (2) पतला, (3) हल्का, (4) परिश्वमी 5. घर का अर्थ है, (1) बोबी, (2) परिवार, (3) मकान, (4) लखं 6. इन पाँच शक्यों में से बे-मेल शक्य का अंक उत्तर पत्र पर तिल्लें— (1) द्लेट, (2) चम्मचा, (3) प्याला, (4) पतीला, (5) केला 7. पीतर का उल्टा है, (1) बाहर, (2) खुला, (3) मैदान, (4) तील 8. विद्या का अर्थ है, (1) पुस्तक, (2) ज्ञान, (3) रहस्य, (4) विज्ञान 9. लक्ष्मण की आयु से सीता बड़ी है, परन्तु लक्ष्मण से मरत छोटा है। तब इनमें सबसे बड़ा कौन है? (1) लक्ष्मण, (2) भरत, (3) सीता 10. साधु का उल्टा है, (1) सगड़ा, (2) बुटट, (3) भजन, (4) लड़का 11. इन पाँच शब्दों में से बेमेल शब्द का अंक उत्तर-पत्र पर तिल्लें:— (1) मोट्टर, (2) साइकिल, (3) तांगा, (4) तार, (4) रेलगाड़ी 12. विद्य का उल्टा है, (1) मीटा, (2) औषध, (6) अमृत, (4) शिख 13. ऐहमद से अनवर नाटा है, किन्तु अनवर से हमीद नाटा है, तो सबसे नाटा कौन है? (1) ऐहमद, (2) हमीद, (3) अनवर 14. दलवान का अर्थ है, (1) मोटा, (2) धनवान, (3) प्रधान, (4) शाक्तिवान 15. इन पाँच शब्दों में से बेमेल शब्द का अंक उत्तर-पत्र पर लिल्लें:—	(4)
दिन रात की विद्यों मिलती हैं। 4. मोटा का उल्टा है, (1) छोटा, (2) पतला, (3) हल्का, (4) परिश्वमी 5. घर का अर्थ है, (1) बीवी, (2) परिवार, (3) मकान, (4) बर्ख 6. इन पाँच मक्दों में से बे-मेल मक्द का अंक उत्तर पत्र पर लिखें— (1) छोट, (2) बरमचा, (3) प्याला, (4) पतीला, (5) केला 7. भीतर का उल्टा है, (1) बाहर, (2) खुला, (3) मैदान, (4) तीम 8. विद्या का अर्थ है, (1) पुस्तक, (2) मान, (3) रहस्य, (4) विज्ञान 9. लक्ष्मण की आयु से सीता बड़ी है, परन्तु लक्ष्मण से भरत छोटा है। तत्र इनमें सबसे बढ़ा कौन है? (1) लक्ष्मण, (2) भरत, (3) सीता 10. साधु का उल्टा है, (1) सगड़ा, (2) बुढ्ट, (3) भजन, (4) लड़का 11. इन पाँच मब्दों में से बेमेल मब्द का अंक उत्तर-पत्र पर लिखें:— (1) सोट्र, (2) साइकिल, (3) तांगा, (4) तार, (4) रेनगाड़ी 12. विद्य का उल्टा है, (1) मीठा, (2) औषध, (5) अमृत, (4) शिख 13. ऐहमद से अनवर नाटा है, किन्तु अनवर से हमीद नाटा है, तो सबसे नादा कीन है? (1) ऐहसद, (2) हमीद, (3) अनवर 14. दलवान का अर्थ है, (1) मोटा, (2) धनवान, (3) प्रधान, (4) सिक्वान 15. इन पाँच मुक्दों में से बेमेल मुक्द का अंक उत्तर-पत्र पर लिखें:—	(4)
4. मोटा का उल्टा है, (1) छोटा, (2) पतला, (3) हल्का, (4) परिश्वमी 5. घर का अर्थ है, (1) बीबी, (2) परिवार, (3) मकाल, (4) लखं 6. इन पाँच शब्दों में से बे-मेल शब्द का अक उत्तर पत्र पर लिखें— (1) ज़्लेट, (2) च्रम्मचा, (3) प्याला, (4) पतीला, (5) केला 7. भीतर का उल्टा है, (1) बाहर, (2) खुला, (3) मैदाल, (4) तील 8. विद्या का अर्थ है, (1) पुस्तक, (2) ज्ञान, (3) रहस्य, (4) विज्ञान 9. लक्ष्मण की आयु से सीता बड़ी है, परन्तु लक्ष्मण से भरत छोटा है। तब इनमें सबसे बढ़ा कील है? (1) लक्ष्मण, (2) भरत, (3) सीता 10. साधु का उल्टा है, (1) सागढ़ा, (2) बुढट, (3) भजन, (4) लड़का 11. इन पाँच शब्दों में से बेमेल शब्द का अंक उत्तर-पत्र पर लिखें:— (1) मोटर, (2) साइकिल; (3) तावा, (4) तार, (4) रेलगाड़ी 12. विद्य का उल्टा है, (1) मीठा, (2) औषध, (5) अमृत, (4) शिख 13. ऐहमद से जनवर नाटा है, किन्तु अनवर से हमीद नाटा है, तो सबसे नाटा कीन है? (1) ऐहमद, (2) हमीद, (3) अनवर 14. दलवान का अर्थ है, (1) मोटा, (2) धनवान, (3) प्रधान, (4) शासिबान 15 इत पाँच शब्दों में से बेमेल शब्द का अंक उत्तर-पत्र पर लिखें :—	(4)
5. घर का अर्थ है, (1) बीबी, (2) परिवार, (3) मकाल, (4) खर्च 6. इन पाँच शब्दों में से बे-मेल शब्द का अंक उत्तर पत्र पर लिखें— (1) क्लेट, (2) चम्मचा, (3) प्याला, (4) पतीला, (5) केला 7. भीतर का उल्टा है, (1) बाहर, (2) खुला, (3) भीवान, (4) तीख 8. विद्या का अर्थ है, (1) पुस्तक, (2) ज्ञान, (3) रहस्य, (4) विज्ञान 9. लक्ष्मण की आयु से सीता बड़ी है, परन्तु लक्ष्मण से भरत छोटा है। तब इनमें सबसे बड़ा कौन है? (1) लक्ष्मण, (2) जरत, (3) सीता 10. साधु का उल्टा है, (1) सगढ़ा, (2) बुब्द, (3) भजन, (4) लड़का 11. इन पाँच शब्दों में से बेमेल शब्द का अंक उत्तर-पत्र पर लिखें:— (1) मोट्र, (2) साइकिल, (3) तांचा, (4) तार, (4) रेलवाड़ी 12. विद्य का उल्टा है, (1) मीठा, (2) औषध, (6) अमृत, (4) शिख 13. ऐहमद से जनवर नाटा है, किन्तु अनवर से हमीद नाटा है, तो सबसे नादा कौन है? (1) ऐहमद, (2) हमीद, (3) अनवर 14. दलवान का अर्थ है, (1) मोटा, (2) धनवान, (3) प्रधान, (4) शाक्तिवान 15 इन पाँच शब्दों में से बेमेल शब्द का अंक उत्तर-पत्र पर लिखें:—	
6. इन पाँच शब्दों में से बे-मेल शब्द का अंक उत्तर पत्र पर लिखें— (1) प्लेट, (2) बस्मचा, (3) प्याला, (4) पतीला, (5) केला 7. भीतर का उल्टा है, (1) बाहर, (2) खुला, (3) मैदान, (4) तीख 8. विद्या का अवं है, (1) पुस्तक, (2) ज्ञान, (3) रहस्य, (4) विज्ञान 9. लक्ष्मण की आयु से सीता बड़ी है, परन्तु लक्ष्मण से भरत छोटा है। तब इनमें सबसे बढ़ा कौन है? (1) लक्ष्मण, (2) भरत, (3) सीता 10. साधु का उल्टा है, (1) झगड़ा, (2) बुटट, (3) भजन, (4) लड़का 11. इन पाँच शब्दों में से बेमेल भव्द का अंक उत्तर-पत्र पर लिखें:— (1) मोट्टर, (2) साइकिल, (3) तांचा, (4) तार, (4) रेलगाड़ी 12. विच का उल्टा है, (1) मीठा, (2) धाँचध, (6) अमृत, (4) शिख 13. ऐहमद से अनवर नाटा है, किन्तु अनवर से हमीद नाटा है, तो सबसे नाटा कौन है? (1) ऐहमद, (2) हसीद, (3) अनवर 14. दलवान का अर्थ है, (1) मोटा, (2) धनवान, (3) प्रधान, (4) शाक्तवान 15 इन पाँच शब्दों में से बेमेल मद्य का अंक उत्तर-पत्र पर लिखें:—	
(1) ब्लेट, (2) चरमचा, (3) ध्याला, (4) पतीला, (5) केला 7. भीतर का उल्टा है, (1) बाहर, (2) खुला, (3) भैवान, (4) तील 8. विद्या का अर्थ है, (1) पुस्तक, (2) ज्ञान, (3) रहस्य, (4) विज्ञान 9. लक्ष्मण की आयु से सीता बड़ी है, परन्तु लक्ष्मण से भरत छोटा है। तब इनमें सबसे बड़ा कौन है? (1) लक्ष्मण, (2) भरत, (3) सीता 10. साधु का उल्टा है, (1) भगड़ा, (2) बुब्द, (3) भजन, (4) लड़का 11. इन पाँच शब्दों में से बेमेल शब्द का अंक उत्तर-पत्र पर लिखें:— (1) मोट्र, (2) साइकिल, (3) तांचा, (4) तार, (4) रेलगाड़ी 12. विद्य का उल्टा है, (1) मीठा, (2) औषध, (5) अमृत, (4) शिव 13. ऐहमद से बनवर नाटा है, किन्तु अनवर से हमीद नाटा है, तो सबसे नाटा कौन है? (1) ऐहमद, (2) हमीद, (3) अनवर 14. दलवान का अर्थ है, (1) सोटा, (2) धनवान, (3) प्रधान, (4) शिक्षधान 15 इत पाँच शब्दों में से बेमेल शब्द का अंक उत्तर पत्र पर लिखें:—	
 लक्ष्मण की आयु से सीता बड़ी है, परन्तु लक्ष्मण से भरत छोटा है। तब इनमें सबसे बड़ा कीन है? (1) लक्ष्मण,	
 लक्ष्मण की आयु से सीता बड़ी है, परन्तु लक्ष्मण से भरत छोटा है। तब इनमें सबसे बड़ा कीन है? (1) लक्ष्मण,	(6)
 लक्ष्मण की आयु से सीता बड़ी है, परन्तु लक्ष्मण से भरत छोटा है। तब इनमें सबसे बड़ा कीन है? (1) लक्ष्मण,	(7)
 लक्ष्मण की आयु से सीता बड़ी है, परन्तु लक्ष्मण से भरत छोटा है। तब इनमें सबसे बड़ा कीन है? (1) लक्ष्मण,	(8)
(1) लक्ष्मण,	
11. इत पाँच गड़्यों में से बेमेल गड़्य का अंक उत्तर-पत्र पर लिखें :— (1) सोट्र, (2) साइकिल, (3) तांचा, (4) तार, (4) रेलगाड़ी 12. विच का उल्टा है, (1) मीठा, (2) औषध, (6) अमृत, (4) शिख 13. ऐहमद से अनवर नाटा है, किन्तु अनवर से हमीद नाटा है, तो सबसे नाटा कीन है? (1) ऐहमद, (2) हमीद, (3) अनवर 14. दलवान का अर्थ है, (1) सोटा, (2) धनवान, (3) प्रधान, (4) शक्तियान 15 इत पाँच गड़्यों में से बेमेल गड़्य का अंक उत्तर पत्र पर लिखें :—	(9)
11. इत पाँच गड़्यों में से बेमेल गड़्य का अंक उत्तर-पत्र पर लिखें :— (1) सोट्र, (2) साइकिल, (3) तांचा, (4) तार, (4) रेलगाड़ी 12. विच का उल्टा है, (1) मीठा, (2) औषध, (6) अमृत, (4) शिख 13. ऐहमद से अनवर नाटा है, किन्तु अनवर से हमीद नाटा है, तो सबसे नाटा कीन है? (1) ऐहमद, (2) हमीद, (3) अनवर 14. दलवान का अर्थ है, (1) सोटा, (2) धनवान, (3) प्रधान, (4) शक्तियान 15 इत पाँच गड़्यों में से बेमेल गड़्य का अंक उत्तर पत्र पर लिखें :—	(10)
(1) मोट्र, (2) साइकिल, (3) तांगा, (4) तार, (4) रेलगाड़ी 12. विष का उल्टा है, (1) मीठा, (2) औषध, (5) अमृत, (4) शिख 13. ऐहमद से अनवर नाटा है, किन्तु अनवर से हमीद नाटा है, तो सबसे नाटा कीन है? (1) ऐहमद, (2) हमीद, (3) अनवर 14. दलवान का अर्थ है, (1) मोटा, (2) धनवान, (3) प्रधान, (4) शक्तियान 15 इत पांच शब्दों में से बेंमेल शब्द का अंक उत्तर पश पर लिखें:—	1.01
 12. विष का उल्टा है, (¹) मीठा, (²) औषध, (४) अमृत, (⁴) शिव 13. ऐहमद से अनवर नाटा है, किन्तु अनवर से हमीद नाटा है, तो सबसे नाटा कीन है ? (¹) ऐहमद, (²) हमीद, (³) अनवर 14. दलवान का अर्थ है, (¹) मोटा, (²) धनवान, (³) प्रधान, (⁴) शक्तिवान 15 इत पांच शब्दों में से बेमेन शब्द का अंक उत्तर पश पर लिखें :— 	/++1
 ऐहमद से अनवर नाटा है, किन्तु अनवर से हमीद नाटा है, तो सबसे नाटा कीन है? (1) ऐहमद, (2) हमीद, (3) अनवर 14. दलवान का अर्थ है, (1) मोटा, (2) धनवान, (3) प्रधान, (4) शक्तिवान 15 इत पीच शब्दों में से वेंमेल शब्द का अंक उत्तर प्रशास जिल्लों :	(11)
(2) हमीद, (3) अनवर 14. दलवान का अर्थ है, (1) मोटा, (2) धनवान, (3) प्रधान, (4) शक्तिवान 15 इत पांच शब्दों में से बेंमेल शब्द का अंक उत्तर पश्च पर लिखें :	(12)
14. दलवान का अर्थ है, (1) मोटा, (2) धनवान, (3) प्रधान, (4) शक्तिवान 15 इन पांच शब्दों में से बेमेन शब्द का अंक उत्तर पत्र पर लिखें:—	/
15 इत पाँच शब्दों में से बेमेल शब्द का अंक उत्तर पत्र पर लिखें:	(13)
	(14)
(1) चस्पा, (2) चमला, (39 चाय (4) तेन (४)	
16. अर्जुन से कमला अधिक दौड़ती है, किन्तु चपला से कमला पीछे रह जाती है, तो सबसे अधिक तेज	(15)
्रात राहता है। प्राप्त (1 bayer) के कि राहता है। अपने कि	
17. इन पाँच शब्दों में से वेमेल शब्द का अंक उत्तर-पत्र पर निखें :	(16)
(1) मोटर, (अ रिक्शा, (3) ताँगा, (4) पैवल, (5) साइकिल	
18. "मुख में राम बगल में छुरी" का अभिप्राय है, (1) राम-राम कहने वाले सदा बगल में छुरी रखते हैं।	(17)
(2) राम कहने से छुरी से रक्षा होती है, (3) अनेक दुष्ट लोग धर्म का पासवह करते है।	
19. नीचे दिए संख्या-क्रम के अनुसार आगे की एक संख्या उत्तर-पत्र	(18)
पर लिख: ठ, /, ठ, ठ, ४, ३, 20. इन पाच मन्दों में से बेमेल मन्द का अक उत्तर-पत्र पर लिखें:	(19)
(1) हवय, (2) आंख, (3) कान, (4) नाक, (5) जोन	(20)
[प्रश्न 2 के लिये देखिए पूष्ठ 2 (दूसरा)] (शोध्रता से कार्य	

(क)) हाँ 🗀	(ख) नहीं	TU	(गा) जानारपत	F
१६. यदि तु	म्हें घर से बहुत	दूर पढ़ने या नौर	हरी करने व	नोना पड़े तो क्या	तुम्हारे
माता-	पिता तुम्हें भेजन	ा पसन्द करेंगे ?		15.2	
(क) हੀ 🖂	(ख) नहीं		(ग) अनिश्चित	
२०. क्या त	म नयी घीजों/न	वीन विधियों को	एकदम स्वी	कार कर सकते ह	11
(क) हा □	(ख) नहीं	MODE	(ग) अनिश्चित	

	्युकः 2 (१ (उत्तर-१म्र पर ध्या-स्थान उत्ति			प्रश्न-संख्या
21. जूते चमड़े के प	सिलए बनते हैं, (1) कि यह अधिक ज	बता है। (2) वह मृत	पा	(21)
की साल से वन	तता है (3) यह सब देशों में प		Age Care Services	i sp. V
we find the	ा क्या के अनुसार आगे की एक संख्या 6 11 16, 21, नहीं होती, इसलिए कहते हैं कि (१) स	20.	••• मारी बसारी ।	(22)
/2) बाक्ये की	विजय होती है। (3) सच्ये आदम	ते के घर में बांच नहीं	मिणती । अस्तिक क्षित्र	(23)
24. नीचे विशे संस्थ	वान्त्रम् के अनुसार जाने की संख्या पत्र 3, 6, 9,	12, 15, 1	8, ****	(24)
ne Color militie	िक्त जोग विभाग यात्रा पसन्द करते हैं	, इसलिए कि (1) इस	न याका समय लगता	
(2) पाचा में	माने-पीने का पूरा प्रवन्ध होता है । (३) १ के के बे-केल अब्द का अंक उत्तर-पत्र प) बहहबाम झूल स क ।र निस्ते—	पर उपत है।	(25)
	701 /31 magrat	(4) 19882	(5) डेनिस	(26)
A7	सका बाहित पत्रता है. इसलिए कि	(1) उसकी नर	क का कब्द भागना प	हेगा ।
. (2) जंकित म	न बाले पाप करते हैं। (3) पापी की प	। लि खुलन का डर रहत	181	(27)
28 அர் சொர்க	या कम के अनुसार आने की एक संख्या	उत्तर-गत्र		
	6 11 17, 23,	29, 30,		(28)
00 3- 5 3:	क की बद्धन की लाइनें होनी चाहिए. इस	लिए कि (1) इनमें ना	ल और मनुष्यों के	
आने-जाने भी	स्विधा होती है। (2) इनसे व्यापार व	हो लाभ होता है। (3)	इनक द्वारा देश म	/001
	- गरा बा में जाता है।		and the first of the second	(29)
30. हीरा का अर्थ	हे, (1) मोती, (2) महंगा,	(3) पत्पर,	(५) खवाहर	(30)
31. नीचे दिए सर	वा त्रम के अनुसार आगे की एक संख्या	उत्तर-पत्र , 39, 48,		(31)
गर लिखें-−	3, 12, 21, 30	150 E		
32. इन पाँच शब्द	ों में से बेमेल मध्य का अंक उत्तर-पत्र प स, (2) तुलसीदास, (3) जयसंकर	रालल— प्रमास (4) स्रतः	(5) हैगोर	(32)
(।) कालावा	स, (2) युक्ताचाय, (2) जनगण ह्याकम के अनुसार की एक संख्या उत्त	र एक	ng ng kalang dan Sin	
33. नाचादयं सर	14, 17, 20, 2	3, 26, 29	****	(33)
Ad where also	· क्षात्री · (1) वालक. (2) पहि	या (३) सडक, (५)	टट्टू, ""	(34)
A Committee of the Comm	A A A A Arm man art are Gett. (1911)	TV Telegram	and the Armed Court and America	
(1) दास.	(2) बूर, (3) परे, (4) व व्यक्ष : सैनिक (1) मजबूर, (2)	वहाँ, (5) बीमा		(35)
36. लिपिक : अध	यक्ष : सैनिक (1) भजबूर, (2)	विक्रोता, (3) कप्तान	(4) चातक	(36)
३७ जन जीव गाउ	ों में से बे-मेल शब्द का संक उत्तर पर।	ल स -		7591
	///	ो नासना	74\	(37) (38)
38. तरल : ठोस	ः पाना (१) वरफ, (८) भर) (2) avan	(4) 4414	(53)
39, नीचे दिवे स	स्या क्रम के अनुसार आगे की एक संख्या	। उत्तर-पत्र 16. 32		(39)
पर लिख	1, 2, 2, 4, 8,	= (3) state	(4) ਗਰ	(40)
40. बानवरी : फ	रवरी : जलाई : (1) मार्च, (2) अगर	(a) (a) (lault)	(-)	
[प्रकल 41 व	हे लिए पन्ना उलटिये, और देखिए पृष्ठ 3	ं (तासरा)]	्रताञ्चता स काव	44 1)

	er + Linning	बोइ	13	ोइ	बीइ	नोड	ने	•
ंकुल भोड			इतम्ब	im	<u>-</u> परी	\$45		
l. Poor gi a	2. V.dull इंडिज़ मंद	3. Dull मंद	4. Low कम कुशस	S. Average भौगत	e. Bright	रि Superior उसम	४ Super समुक्तम	e. Excellent स्रतिभाषान

41. तीचे दिये संख्या कम के अनुसार, आगे की एक संख्या उत्तर-पत्र पर लिखें :— 21, 19, 17, 15, 13, 11, 42. बहुत : बाई :: बासी : (1) चाचा, (2) बुजा, (3) बाबा, (4) मामा	(उत्तर-पत्र पर यथा-स्थान उचित-उत्तर की संस्या लिखें।)	प्रश्न संस्था
पर लिखें : 21, 19, 17, 15, 13, 11, 42. बहुल : बाई :: माती : (1) घाचा, (2) बुआ, (3) बाबा, (4) मामा (42 43. गोबदंन की मोटाई घट्टन से कम है, और चट्टन से अधिक मोटा गिरखारी है, तो सबसे		
पर लिखें :— 21, 19, 17, 15, 13, 11, 42. बहुल : बाई :: सासी : (1) घाचा, (2) बुआ, (3) बाबा, (4) सासा (42 बहुल : बाई :: सासी : (1) घाचा, (2) बुआ, (3) बाबा, (4) सासा (43 सोय दंग की सोटाई पट्टन से कम है, और चन्द्रत से अधिक मोटा गिरधारी है, तो सबसे बुक्सा कील है ? (1) धण्डल, (2) निरधारी, (3) बोबदंग (43 से4. तीचे दिवे बंध्या कम के अनुसार आगे की एक संख्या उत्तर-पत्र पर सिखें : 18, 16, 14, 12, 10, 8 (44 हीर पर सिखें : 18, 16, 14, 12, 10, 8 (45 हुँक्सा: रोला: : बचपन : (1) खेलकूद (2) बुढ़ापा (3) सारपीट (4) हीर (45 हुँक्सा: रोला: : बचपन : (1) खेलकूद (2) बुढ़ापा (3) सारपीट (4) हीर (45 हुँक्सा: रोला: : बचपन : (1) खेलकूद (2) बुढ़ापा (3) सारपीट (4) हीर (45 हुँक्सा: रोला: : बचपन : (1) खेलकूद (2) खेला, (3) धोड़ा, (4) खेड़, (5) बकरों (46 हुँक्सा करों में से वेमल अब्द का अंक उत्तर-पत्र पर लिखें :— (1) कूब्सा, (2) फादना, (3) कामता, (4) खंड रहना, (5) चलका (48 हुँक्सा, (2) फादना, (3) कामता, (4) खंड रहना, (5) चलका (48 एवं) तीनाई करता है किन्तु पुष्पा से परमा अच्छा काम करती है तब सिलाई में से सबसे अच्छा कीन है ? (1) रचलीत, (2) पबसा, (3) पुष्पा (49 खंड रहना, (5) पत्यर (50 हुँक्सा क्या कर्दों में से शब्द का अंक उत्तर पत्र पर लिखें :— (1) क्यिही, (2) लकड़ी, (3) सिक्षा, (4) कंकर, (5) पत्यर (51 उच्च क्या क्या कर्दों में से शब्द का अंक उत्तर पत्र पर लिखें :— (5) पत्यर लिखें :— 78, 67, 56, 45, 34, 23 (52 राल खें :— 78, 67, 56, 45, 34, 23 (52 राल खें :— 78, 67, 56, 45, 34, 23 (52 राल खें :— 78, 67, 56, 45, 34, 23 (53 खेल : सेव : खुष्प : (1) अतार (2) बादास (3) बुलाब (4) जाधुन (53 खेल : सेव : खुष्प : (1) अतार (2) बादास (3) बुलाब (4) जाधुन (53 खेल : सेव : खुष्प : (1) अतार (2) बादास (3) बुलाब (4) जाधुन (53 खेल : सेव : खुष्प : में के अनुसार आगे की एक संख्या उत्तर-पत्र पर लिखें :— (2) कुंड प्रवे से के अनुसार आगे की एक संख्या उत्तर-पत्र पर लिखें :— (2) खुंड प्रवे से से के जा ला कहा जा करता है है (3) खुंड वोलने वाले बहुत बुंड कुंड वोलते हैं (2) खुंड के पीब नहीं होते ।" यह इस कारण कहा जाया करती है (1) अतुंड वाल ने वाल बहुत बुंड वे किते हैं (2) खुंड के पीब नहीं होते ।" स्वा कर्द का अंक उत्तर-पत्र पर लिखें :— (4)	41. नीचे दिये संख्या कम के अनुसार, आगे की एक संख्या उत्तर-पत्र	(41)
42. बहुल : बाई :: बासी : (1) चाचा, (2) बुआ, (3) बाबा, (4) मामा	पर लिखें :- 21, 19, 17, 15, 13, 11,	
43. गोबर्टन की मोटाई चन्द्रन से कम है, और वन्द्रन से अधिक मोटा गिरखारी है, तो सबसे	42. बहुन : बार्ड :: मासी : (1) चाचा, (2) बुआ, (3) बाबा, (4) मासा $"$	(42)
बुबला कौन है? (1) क्षत्रवन, (2) निरद्यारी, (3) गोबर्डन (43 नीचे दिवे खंक्या कम के अनुसार आगे की एक संख्या उत्तर-पत्र पर लिखें : 18, 16, 14, 12, 10, 8	43. गोवर्द्धन की मोटाई चन्द्रन से कम है, और चन्द्रन से अधिक मोटा गिरधारी है, तो सबसे	
44. तीचे दिये खंख्या कम के अनुसार आये की एक संख्या उत्तर-पत्र पर सिखें: 18, 16, 14, 12, 10, 8	बुबला कील है ? (1) चन्त्रन, (2) गिरधारी, (3) गोवर्द्धन	(43)
पर लिखें : 18, 16, 14, 12, 10, 8		
45. हुंबना: रोजा: : बचपन : (1) खेतकूद (2) चुढ़ापा (3) मारपीट (4) हार (46. इन पीच बब्दों में से बेमेल शब्द का अक उत्तर-पत्र पर लिखें :— (1) वाय, (2) फेंस, (3) घोड़ा, (4) घेड़, (5) बकरी	पर लिखें: 18, 16, 14, 12, 10, 8	•••• (44)
46. इन पांच बाब्यों में से बेमेल शब्द का अक उत्तर-पत्र पर लिखें :— (1) बाब, (2) मेंस, (3) घोड़ा, (4) भेड़, (5) बकरी	45. हॅसना : रोना: : बचपन : (1) खेलकूद (2) बुढ़ापा (3) मारपीट (4) हार	(45)
(1) बाब, (2) मंस, (3) घोड़ा, (4) भेड़, (5) बकरी		
47. कर का खरा है. (1) सकजन, (2) भला, (3) बयालू, (4) कठोर (47. 48. इन पांच बहरों में से बेमल प्रभ्द का अंक उत्तर-पत्र पर लिखें :— (1) कूबला, (2) फादना, (3) जागना, (4) खड़ रहना, (5) खलना (48. परमा से रणजीत अच्छी सिलाई करता है, किन्तु पुष्पों से पदमा अच्छा कार्य करती है तब सिलाई में सबसे अच्छा कीन है? (1) रणजीत, (2) पबसा, (3) पुष्पा (49. इन पांच बहरों में से शब्द का अंक उत्तर पत्र पर लिखें :— (1) फिब्रुटी, (2) लकड़ी, (3) प्रिक्षा, (4) कंकर, (5) पत्थर (51. उद्धव का बस्टा है (1) वियोग, (2) इरपोक, (3) विश्वाम, (4) आलस्य (51. उद्धव का बस्टा है (1) वियोग, (2) इरपोक, (3) विश्वाम, (4) आलस्य (51. उद्धव का बस्टा है (1) अनार (2) बादाम (3) गुलाब (4) जामुन (53. कल :: लेख : कुष्प : (1) अनार (2) बादाम (3) गुलाब (4) जामुन (53. कल :: लेख : कुष्प : (1) अनार (2) बादाम (3) गुलाब (4) जामुन (53. कल :: लेख : कुष्प : (1) अनार (2) किशन, (3) राम (54. पोहन, (3) राम (54. पाहन, (4) खालक (3) राम (55. पाहन, (4) खालक (3) राम (55. पाहन, (4) खालक (4) खालक (3) राम (55. पाहन, (4) खालक (4) खालक (55. याच : साझी :: सोटर : (1) स्वामी, (2) याची, (3) नगर, (4) खालक (55. पाहन, (2) कुरी से बेमेल शब्द का अंक उत्तर-पत्र पर लिखें :— (1) खाट, (2) कुरी (3) प्लेट, (4) सोफा (5) पोड़ा (55. पाहन (4) याड़ : सेना : (1) सिपाही, (2) पत्थर, (3) हिष्यार, (4) याड़ (55. पाहन (4) याड़ : सेना : ईट :: सेना : (1) सिपाही, (2) पत्थर, (3) हिष्यार, (4) याड़ (55. पाहन (4) याड़ (4) याड़ (55. पाहन (4) याड़ (55. पाहन (4) याड़ (55. पाहन (4) याड़ (4) याड़ (4) याड़ (55. पाहन (4) याड़ (4) याड		•••• (46)
48. इन पांच बाब्दों में से बेगल प्रब्द का बंक उत्तर-पत्र पर लिखें :— (1) कूबना, (2) फादना, (3) कागना, (4) खड़ रहना, (5) चलना 49. पदमा से रणजीत अच्छी सिलाई करता है, किन्तु पुष्पों से पदमा अच्छा कार्य करती है तब सिलाई में सबसे बच्छा कीन है? (1) रणजीत, (2) पदमा, (3) पुष्पा 50. इन पांच बाब्दों में से शब्द का अंक उत्तर पत्र पर लिखें :— (1) किब्दी, (2) लकड़ी, (3) शिक्षा, (4) कंकर, (5) पत्थर (51. उत्तव का बत्दा है (1) वियोग, (2) इरपोक, (3) विश्वाम, (4) आलस्य (52. नीचे दिवे बंख्या कम के अनुसार आगे की एक संख्या उत्तर-पत्र पर लिखें :— 78, 67, 56, 45, 34, 23 (53. कल::सेब: चूड्य: (1) अतार (2) बादाम (3) गुलाब (4) जामुन (54. मोहन से नाटा राम है। और किशन में नाटा राम है। तब सबसे कम लम्बा कीन है? (1) मोहन, (2) किशन, (3) राम (54. तीचे दिवे संख्या कम के अनुसार आगे की एक संख्या उत्तर-पत्र पर लिखें :— 5, 6, 8, 11, 15, 20 (55. तीचे दिवे संख्या कम के अनुसार आगे की एक संख्या उत्तर-पत्र पर लिखें :— 5, 6, 8, 11, 15, 20 (56. "झूठ के पांच नहीं होते।" यह इस कारण कहा जाता है कि (1) लगड़े मनुष्य बहुत झूठ बोलते हैं। (2) झूठे मनुष्य की पोल शोच्र खुज जाया करती है। (3) झूठ बोलने वाने बहुत बार चलते समय ठोकर खाते हैं: (1) साहर: (1) स्वामी, (2) यात्री, (3) तथर, (4) खालक (57. बाब: माझी:: मोटर: (1) स्वामी, (2) यात्री, (3) तथर, (4) खालक (58. इत पांच शब्दों में से बेमेल शब्द का अंक उत्तर-पत्र पर लिखे:— (1) बाट, (2) कुर्खों (3) प्लेट, (4) सोफा (5) पोड़ा (59. मुक्बन: इंट:: सेना: (1) सिपाही, (2) पत्रवर, (3) हिवयार, (4) युड	47. कर का उस्टा है, . (1) सक्जन, (2) भला, (3) दयालू, (4) कठोर	(47)
(1) क्वा, (2) फावना, (3) कागना, (4) खड़ रहना, (5) खलना (48) पदमा से रणजीत अच्छी सिलाई करता है, किन्तु पुष्पा से पदमा अच्छा कार्य करती है तब सिलाई में सबसे बच्छा कीन है? (1) रणजीत, (2) पदमा, (3) पुष्पा (49) 50. इन पाँच कवरों में से गब्द का अंक उत्तर पश्र पर लिखें :— (1) किव्दी, (2) लकड़ो, (3) शिक्षा, (4) कंकर, (5) पत्थर (50) 51. उद्धाव का उत्तर है (1) वियोग, (2) इरपोक, (3) विश्राम, (4) बालस्व (51) 52. नीचे दिवे बंख्या कम के अनुसार आगे की एक संख्या उत्तर-पत्र पर लिखें :— 78, 67, 56, 45, 34, 23 (52) 53. कल :: केव : कुष्प : (1) अनार (2) बादाम (3) गुलाब (4) जामुन (53) 54. मोहन से नाटा राम है। और किशन में नाटा राम है। तब सबसे कम लम्बा कीन है? (1) मोहन, (2) किशन, (3) राम (54) 55. नीचे दिवे संख्या कम के अनुसार आगे की एक संख्या उत्तर-पत्र पर लिखें :— 5, 6, 8, 11, 15, 20 (55) 56. "झूठ के पाँच नहीं होते।" यह इस कारण कहा जाता है कि (1) लगड़े मनुष्य बहुत झूठ बोलते हैं। (2) झूठे मनुष्य की पोल शीघ खुल जाया करती है। (3) झूठ बोलने वाले बहुत बार चलते समय ठोकर खाते हैं : (1) स्वामी, (2) यात्री, (3) नगर, (4) खालक (57) काब : माझी :: मोटर : (1) स्वामी, (2) यात्री, (3) नगर, (4) खालक (57) काब : साझी : सोटर : (1) स्वामी, (2) यात्री, (3) नगर, (4) खालक (57) काव : सेवा : (1) सिवाही, (2) पत्थर, (3) हिथेबार, (4) युद्ध (55) सम्बान : इँट :: सेना : (1) सिवाही, (2) पत्थर, (3) हिथेबार, (4) युद्ध (55)	48 इन पांच मध्यों में से बेमल मध्य का अंक उत्तर-पत्र पर लिखें:-	
49. पदमा से रणजीत अच्छी सिलाई करता है, किन्तु पुष्पा से पदमा अच्छा कार्य करती है तब सिलाई में सबसे अच्छा कीन है? (1) रणजीत, (2) पबमा, (3) पुष्पा (49 50. इन पाँच मब्दों में से गब्द का अंक उत्तर पत्र पर लिखें :— (1) मिब्दरी, (2) लकड़ी, (3) शिक्षा, (4) कंकर, (5) पत्थर (50 51. उब्बल का बस्टा है (1) वियोग, (2) इरपोक, (3) विश्राम, (4) आलस्व (51 52. नीचे दिवे संख्या कम के अनुसार आगे की एक संख्या उत्तर-पत्र कर लिखें :— 78, 67, 56, 45, 34, 23 (52 53. कल :: सेव : पृष्प : (1) अतार (2) बादाम (3) गुलाब (4) जामुन (53 54. मोहन से नाटा राम है। और किशन मे नाटा राम है। तब सबसे कम लम्बा कीन है? (1) मोहन, (2) किशन, (3) राम (54 55. नीचे दिवे संख्या कम के अनुसार आगे की एक संख्या उत्तर-पत्र पर लिखें :— 5, 6, 8, 11, 15, 20 (55 56. "झूठ के पाँच नहीं होते।" यह इस कारण कहा जाता है कि (1) लगड़े मनुष्य बहुत झूठ बोलते हैं। (2) झूठे मनुष्य की पोल शीघ्र खुज जाया करती है। (3) झूठ बोलने वाले बहुत बार चलते समय ठोकर स्वाते हैं : 57. बाब : माझी :: मोटर : (1) स्वामो, (2) यात्री, (3) नगर, (4) खालक (57 58. इन पाँच शब्दों में से बेमेल शब्द का अंक उत्तर-पत्र पर लिखें :— (1) साह, (2) कुर्सी (3) प्लेट, (4) सीफा (5) पीड़ा (58 59. मुकान : इँट :: सेना : (1) सिवाहो, (2) पत्त्वर, (3) हिवार, (4) सुकान, (4) युड	(1) कदना, (2) फादना, (3) मागना, (4) खड़ रहना, (5) चलना	(48)
में सबसे बच्छा कीन है? (1) रखजीत, (2) पबमा, (3) पुछपा 50. इन पांच महदों में से ग्रन्ट का अंक उत्तर पत्र पर लिखें :— (1) मिह्हीं, (2) लकड़ी, (3) शिक्षा, (4) कंकर, (5) पत्थर 51. उज्जय का उत्तर है (1) वियोग, (2) डरपोक, (3) विश्राम, (4) जालस्य 52. नीचे दिवे कंख्या कम के अनुसार आगे की एक संस्था उत्तर-पत्र पर लिखें :— 78, 67, 56, 45, 34, 23 (52) 53. कल : सेवः पृष्ठप: (1) अनार (2) बादाम (3) गुलाब (4) जामुन 54. मोहन से नाटा राम है। और किशन मे नाटा राम है। तब सबसे कम लम्बा कीन है? (1) मोहन, (2) किशन, (3) राम (54) 55. नीचे दिये संख्या कम के अनुसार आगे की एक संख्या उत्तर-पत्र पर लिखें :— 5, 6, 8, 11, 15, 20 (55) 66. 'अहुठ के पांच नहीं होते।'' यह इस कारण कहा जाता है कि (1) लगड़े मनुष्य बहुत झूठ बोलते हैं। (2) झूठे मनुष्य की पोल शीघ्र खुन जाया करती है। (3) झूठ बोलने वाले बहुत बार चलते समय ठोकर खाते हैं : (2) झूठे मनुष्य की पोल शीघ्र खुन जाया करती है। (3) झूठ बोलने वाले बहुत बार चलते समय ठोकर खाते हैं : (50) 57. बाब: माझी: सोटर: (1) स्वामी, (2) यात्री, (3) नगर, (4) खालक (50) 58. इत पांच शब्दों में से बेमेल शब्द का अंक उत्तर-पत्र पर लिखें :— (1) बाट, (2) कुसीं (3) प्लेट, (4) सोष्फा (5) पोड़ा (50) 59. मकान: इँट::सेना: (1) सिपाही, (2) पत्थर, (3) हिषयार, (4) युड	49. पदमा से रणजीत अच्छी सिलाई करता है, किन्तु पुष्पा से पदमा अच्छा कार्य करती है तब सि	लाई "
50. इन पांच कहरों में से शब्द का अक उत्तर पत्र पर लिखें :— (1) सिह्ही, (2) लकड़ो, (3) सिक्षा, (4) कंकर, (5) पत्थर 51. उत्तव का उत्तर है (1) वियोग, (2) डरपोक, (3) विश्राम, (4) आलस्य 52. नीचे दिवें कंच्या कम के अनुसार आगे की एक संख्या उत्तर-पत्र वर लिखें :— 78, 67, 56, 45, 34, 23 (52) 53. कल :: सेव : बुक्प : (1) अनार (2) बादाम (3) गुलाब (4) जासुन 54. मोहन से नाटा राम है। और किशन मे नाटा राम है। तब सबसे कम नम्बा कौन है ? (1) मोहन, (2) किशन, (3) राम (54) 55. नीचे दिये संख्या कम के अनुसार आगे की एक संख्या उत्तर-पत्र पर लिखें :— 5, 6, 8, 11, 15, 20 (55) 6. "झूठ के पांच नहीं होते।" यह इस कारण कहा जाता है कि (1) लगड़े मनुष्य बहुत झूठ बोलते हैं। (2) झूठे मनुष्य की पोल शीघ्र खुन जाया करती है। (3) झूठ बोलने वाले बहुत बार चलते समय ठोकर खाते हैं : 57. बाब : माझी :: मोटर : (1) स्वामी, (2) यात्री, (3) नगर, (4) खालक 58. इन पांच कब्दों में से बेमेल शब्द का अंक उत्तर-पत्र पर लिखें :— (5) पोड़ा (1) बाट, (2) कुर्सी (3) प्लेट, (4) सोफा (5) पोड़ा 59. मकान : इंट :: सेना : (1) सिपाही, (2) पत्यर, (3) हिषयार, (4) युड (55)		(49)
(1) मिह्दी, (2) लकड़ी, (3) शिक्षा, (4) कंकर, (5) पत्थर (50) \$1. उस्क का उस्टा है (1) वियोग, (2) डरपोक, (3) विश्राम, (4) आलस्य (51) \$2. नीचे दिवे संख्या कम के अनुसार आगे की एक संख्या उत्तर-पत्र कर लिखें:— 78, 67, 56, 45, 34, 23 (52) \$3. कल :: सेव: पृष्ट : (1) अनार (2) बादाम (3) गुलाब (4) जामुन (53) \$4. मोहन से नाटा राम है। और किशन मे नाटा राम है। तब सबसे कम लम्बा कौन है ? (1) मोहन, (2) किशन, (3) राम (54) \$5. नीचे दिये संख्या कम के अनुसार आगे की एक संख्या उत्तर-पत्र पर लिखें:— 5, 6, 8, 11, 15, 20 (55) \$6. "झूठ के पाँच नहीं होते।" यह इस कारण कहा जाता है कि (1) लगड़े मनुष्य बहुत झूठ बोलते हैं। (2) झूठे मनुष्य की पोल शोघ्र खुन जाया करती है। (3) झूठ बोलने वाले बहुत बार चलते समय ठोकर खाते हैं: \$7. बाब: माझी:: मोटर: (1) स्वामी, (2) यात्री, (3) नगर, (4) खालक (57) \$8. इन पाँच शब्दों में से बेमेल शब्द का अंक उत्तर-पत्र पर लिखें:— (1) बाट, (2) कुर्सों (3) प्लेट, (4) सोफा (5) पोड़ा (55) \$9. सकान: इँट:: सेना: (1) सिपाही, (2) पत्थर, (3) हिषदार, (4) युद्ध (55)		
51. उद्यक्त का बस्टा है (1) वियोग, (2) डरपोक, (3) विश्राम, (4) आलस्य (51) 52. नीचे दिवे संख्या क्रम के अनुसार आगे की एक संख्या उत्तर-पत्र बर लिखें:— 78, 67, 56, 45, 34, 23 (52) 53. कल :: सेख: बुक्प: (1) अनार (2) बादाम (3) गुलाब (4) जामुन (53) 54. मोहन से नाटा राम है। और किशन मे नाटा राम है। तब सबसे कम लम्बा कौन है? (1) मोहन, (2) किशन, (3) राम (54) 55. नीचे दिवे संख्या कम के अनुसार आगे की एक संख्या उत्तर-पत्र पर लिखें:— 5, 6, 8, 11, 15, 20 (55) 66. "झूठ के पाँच नहीं होते।" यह इस कारण कहा जाता है कि (1) लगड़े मनुष्य बहुत झूठ बोलते हैं। (2) झूठे मनुष्य की पोल शीघ्र खुन जाया करती है। (3) झूठ बोलने वाले बहुत बार चलते समय ठोकर खाते हैं: (1) साड: माझी:: मोटर: (1) स्वामी, (2) यात्री, (3) नगर, (4) बालक (57) 58. इत पाँच खड़ों में से बेमेल शब्द का अंक उत्तर-पत्र पर लिखें:— (5) पोड़ा (1) खाट, (2) कुर्सी (3) प्लेट, (4) सोफा (5) पोड़ा (59) मकान: इंट:: सेना: (1) सिपाही, (2) पत्थर, (3) हथियार, (4) युड (59)		(50)
\$2. नीचे दिवे संख्या कम के अनुसार आगे की एक संख्या उत्तर-पत्र पर लिखें:— 78, 67, 56, 45, 34, 23 (52) \$3. कल :: सेव : पुरुष : (1) अनार (2) बादाम (3) गुलाब (4) जामुन (53) \$4. मोहन से नाटा राम है। और किशन में नाटा राम है। तब सबसे कम लम्बा कीन है ? (1) मोहन, (2) किशन, (3) राम (54) \$5. नीचे दिये संख्या कम के अनुसार आगे की एक संख्या उत्तर-पत्र पर लिखें:— 5, 6, 8, 11, 15, 20 (55) \$6. "झूठ के पाँव नहीं होते।" यह इस कारण कहा जाता है कि (1) लगड़े मनुष्य बहुत झूठ बोलते हैं। (2) झूठे मनुष्य की पोल शीझ खुज जाया करती है। (3) झूठ बोलने वाले बहुत बार चलते समय ठोकर खाते हैं: \$7. बाब : माझी :: सोटर : (1) स्वामी, (2) यात्री, (3) नगर, (4) बालक (57) \$8. इन पाँच शब्दों में से बेमेल शब्द का अंक उत्तर-पत्र पर लिखें:— (1) बाट, (2) कुर्सी (3) प्लेट, (4) सोफा (5) पीड़ा (55) \$9. मकान : इँट :: सेना : (1) सिवाही, (2) पत्थर, (3) हियदार, (4) युढ़ (55)	\$1. उक्क का उस्टा है (1) वियोग, (2) उरपोक, (3) विश्राम, (4) आलस्य	(51)
पर लिखें:— 78, 67, 56, 45, 34, 23 (52) 53. फल :: सेब : बुह्म : (1) अनार (2) बादाम (3) गुलाब (4) जामुन (53) 54. मोहन से नाटा राम है। और किशन में नाटा राम है। तब सबसे कम लम्बा कीन है ? (1) मोहन, (2) किशन, (3) राम (54) 55. नीचें दिये संख्या कम के अनुसार आगे की एक संख्या उत्तर-पत्र पर लिखें:— 5, 6, 8, 11, 15, 20 (55) 6. "झूठ के पाँच नहीं होते।" यह इस कारण कहा जाता है कि (1) लगड़े मनुष्य बहुत झूठ बोलते हैं। (2) झूठे मनुष्य की पोल शीघ्र खुन जाया करती है। (3) झूठ बोलने वाले बहुत बार चलते समय ठोकर खाते हैं: 57. बाब : माझी :: सोटर : (1) स्वामी, (2) यात्री, (3) नगर, (4) खालक (57) 58. इन पाँच शब्दों में से बेमेल शब्द का अंक उत्तर-पत्र पर लिखें :— (1) खाट, (2) कुर्सी (3) प्लेट, (4) सोफा (5) पीड़ा (58) 59. मकान : इँट :: सेना : (1) सिपाही, (2) पत्थर, (3) हथियार, (4) युद्ध (59)	\$2. नीचे दिवे संख्या क्रम के अनुसार आगे की एक संख्या उत्तर-पत्र	
53. फल :: सेव : पुरुप : (1) अनार (2) बादाम (3) गुलाब (4) जामुन 54. मोहन से नाटा राम है। जोर किशन ने नाटा राम है। तब सबसे कम लम्बा कौन है ? (1) मोहन, (2) किशन, (3) राम (54) 55. नीचें दिये संख्या कम के अनुसार आगे की एक सक्ष्या उत्तर-पत्र पर लिखें :— 5, 6, 8, 11, 15, 20 (55) 6. "झूठ के पाँच नहीं होते।" यह इस कारण कहा जाता है कि (1) लगड़े मनुष्य बहुत झूठ बोलते हैं। (2) झूठे मनुष्य की पोल शीछ खुन जाया करती है। (3) झूठ बोलने वाले बहुत बार चलते समय ठोकर खाते हैं: 57. बाब : माशो :: मोटर : (1) स्वामो, (2) यात्री, (3) नगर, (4) बालक (57) 58. इन पाँच शब्दों में से बेमेल शब्द का अंक उत्तर-पत्र पर लिखें :— (1) खाट, (2) कुर्सी (3) प्लेट, (4) सोफा (5) पीड़ा (56) 59. मकान : इँट :: सेना : (1) सिपाही, (2) पत्थर, (3) हथियार, (4) युद्ध	बर लिखें :- 78, 67, 56, 45, 34, 23	(52)
54. मोहन से नाटा राम है। और किशन मे नाटा राम है। तब सबसे कम लम्बा कौन है? (1) मोहन, (2) किशन, (3) राम (54) 55. नीचें दिये संख्या अम के अनुसार आगे की एक संख्या उत्तर-पत्र पर लिखें:— 5, 6, 8, 11, 15, 20 (55) 66. "झूठ के पौन नहीं होते।" यह इस कारण कहा जाता है कि (1) लगड़े मनुष्य बहुत झूठ बोलते हैं। (2) झूठे मनुष्य की पोल शीघ्र खुन जाया करती है। (3) झूठ बोलने वाले बहुत बार चलते समय ठोकर खाते हैं: 57. बाब: माशी: मोटर: (1) स्वामी, (2) यात्री, (3) नगर, (4) बालक (57) 58. इन पौच शब्दों में से बेमेल शब्द का अंक उत्तर-पत्र पर लिखें:— (1) खाट, (2) कुर्सी (3) प्लेट, (4) सोफा (5) पीड़ा (58) 59. मकान: इँट: सेना: (1) सिपाही, (2) पत्थर, (3) हथियार, (4) युद्ध (59)	53 क ला :: सेब : ब रुप : (1) अनार (2) बादाम (3) गुलाब (4) जामुन	(53)
(1) मोहन, (2) किशन, (3) राम (54) 55. नीचें दिये संख्या कम के अनुसार आगे की एक संख्या उत्तर-पत्र पर लिखें:— 5, 6, 8, 11, 15, 20 (55) 56. "झूठ के पाँच नहीं होते।" यह इस कारण कहा जाता है कि (1) लगड़ें मनुष्य बहुत झूठ बोलते हैं। (2) झूठें मनुष्य की पोल शीघ्र खुन जाया करती है। (3) झूठ बोलने वाले बहुत बार चलतें समय ठोकर खाते हैं: 57. बाब: माशी:: मोटर: (1) स्वामी, (2) यात्री, (3) नगर, (4) खालक (57) 58. इन पाँच शब्दों में से बेमेल शब्द का अंक उत्तर-पत्र पर लिखें:— (1) खाट, (2) कुर्सी (3) प्लेट, (4) सोष्का (5) पीड़ा (58) 59. मकान: इँट:: सेना: (1) सिपाही, (2) पत्थर, (3) हथियार, (4) युद्ध (59)	54. मोहन से नाटा राम है। और किशन से नाटा राम है। तब सबसे कम लम्बा कौन है ?	
55. नीचे दिथे संख्या कम के अनुसार आगे की एक संख्या उत्तर-पत्र पर लिखें: — 5, 6, 8, 11, 15, 20 (55 56. "झूठ के पाँच नहीं होते।" यह इस कारण कहा जाता है कि (1) लगड़े मनुष्य बहुत झूठ बोलते हैं। (2) झूठे मनुष्य की पोल शीघ्र खुन जाया करती है। (3) झूठ बोलने वाले बहुत बार चलते समय ठोकर खाते हैं: 57. बाब: माशी:: मोटर: (1) स्वामी, (2) यात्री, (3) नगर, (4) बालक (57 58. इत पाँच शब्दों में से बेमेल शब्द का अंक उत्तर-पत्र पर लिखें: — (1) खाट, (2) कुर्सी (3) प्लेट, (4) सोफा (5) पीड़ा (56 59. मकान: इँट:: सेना: (1) सिपाही, (2) पत्थर, (3) हथियार, (4) युद्ध (59	(1) मोहन, (2) किशन, (3) राम	(54)
पर लिखें: — 5, 6, 8, 11, 15, 20 (55 56. "झूठ के पाँच नहीं होते ।" यह इस कारण कहा जाता है कि (1) लगड़े मनुष्य बहुत झूठ बोलते हैं। (2) झूठे मनुष्य की पोल शीघ्र खुन जाया करती है। (3) झूठ बोलने वाले बहुत बार चलते समय ठोकर खाते हैं: 57. बाब: माझी: सोटर: (1) स्वामी, (2) यात्री, (3) नगर, (4) खालक (57 58. इन पाँच शब्दों में से बेमेल शब्द का अंक उत्तर-पत्र पर लिखें: — (1) खाट, (2) कुर्सी (3) प्लेट, (4) सोफा (5) पीड़ा (58 59. मकान: इँट: सेना: (1) सिपाही, (2) पत्थर, (3) हथियार, (4) युद्ध (59	55 तीचे दिये संख्या क्रम के अनुसार आगे की एक संख्या उत्तर-पत्र	
56. "झूठ के पाँच नहीं होते ।" यह इस कारण कहा जाता है कि (1) लगड़े मनुष्य बहुत झूठ बोलते हैं। (2) झूठे मनुष्य की पोल शीघ्र खुल जाया करती है। (3) झूठ बोलने वाले बहुत बार चलते समय ठोकर खाते हैं: 57. बाब: माशी: सोटर: (1) स्वामी, (2) यात्री, (3) नगर, (4) बालक (57) 58. इन पाँच शब्दों में से बेमेल शब्द का अंक उत्तर-पत्र पर लिखें: (1) खाट, (2) कुर्सी (3) प्लेट, (4) सोफा (5) पीड़ा (58) 59. मकान: इँट: सेना: (1) सिपाही, (2) पत्थर, (3) हथियार, (4) युद्ध	पर निर्दे : 5, 6, 8, 11, 15, 20	(55)
(2) झूठे मनुष्य की पोल शीघ्र खुल जाया करती है। (3) झूठ बोलने वाले बहुत बार चलते समय ठोकर खाते हैं: 57. बाब: माझी: सोटर: (1) स्वामी, (2) यात्री, (3) नगर, (4) खालक (57 58. इत पाँच शब्दों में से बेमेल शब्द का अंक उत्तर-पत्र पर लिखें:— (1) खाट, (2) कुसीं (3) प्लेट, (4) सोफा (5) पोड़ा (58 59. मकान: इँट::सेना: (1) सिपाही, (2) पत्थर, (3) हथियार, (4) युद्ध (59	56 "क्यू के पाँच नहीं होते ।" यह इस कारण कहा जाता है कि (1) लगडे मनष्य बहुत झठ बोलते	∄ I
ठोकर साते हैं: 57. बाब: माझी:: मोटर: (1) स्वामी, (2) यात्री, (3) नगर, (4) बालक (57 58. इत पौच शब्दों में से बेमेल शब्द का अंक उत्तर-पत्र पर लिखें: (1) साट, (2) कुर्सी (3) प्लेट, (4) सोफा (5) पीड़ा (58 59. मकान: इँट:: सेना: (1) सिपाही, (2) पत्थर, (3) हथियार, (4) युद्ध (59	(2) ब्रुटे मनस्य की पोल शीघ्र खन जाया करती है। (3) झुठ बोलने वाले बहुत बार चलते समय	
57. बाब: माशी: : मोटर: (1) स्वामी, (2) यात्री, (3) नगर, (4) बालक (57) 58. इत पौच शब्दों में से बेमेल शब्द का अंक उत्तर-पत्र पर लिखें :— (1) बाट, (2) कुर्सी (3) प्लेट, (4) सोफा (5) पीड़ा (58) 59. मकान: इँट:: सेना: (1) सिपाही, (2) पत्थर, (3) हथियार, (4) युद्ध (59)		(56)
58, इत पौच शब्दों में से बेमेल शब्द का अंक उत्तर-पत्र पर लिखें : , (1) बाट, (2) कुर्सी (3) प्लेट, (4) सोफा (5) पीड़ा (58 59, मकान : इँट : सेना : (1) सिपाही, (2) पत्थर, (3) हथियार, (4) युद्ध (59	57 बात : माझी :: मोटर: (1) स्वामी, (2) यात्री, (3) नगर, (4) चालक	(57)
(1) बाट, (2) हुर्सी (3) प्लेट, (4) सोफा (5) पोड़ा (58 59. मकान : इँट : सेना : (1) सिपाही, (2) पत्थर, (3) हथियार, (4) युड (59	S8 इत पौच शब्दों में से बेमेल शब्द का अंक उत्तर-पत्र पर लिखें :	
59. मकान : इंट : सेना : (1) सिपाही, (2) पत्थर, (3) हथियार, (4) युद्ध (59	(1) बाट. (2) कुर्सी (3) ध्लेट, (4) सोफा (5) पोड़ा	(58)
 कीचे दिये संख्या कम के अनुसार आगे की एक सख्या उत्तर पत्र 	59 सकान : इंट : सेना : (1) सिपाही, (2) पत्थर, (3) हथियार, (4) यद	
	60. नीचे दिये संख्या कम के अनुसार आगे की एक सख्या उत्तर पत्र	
पर लिखें :5, 6, 9, 10, 13, 14 (60	पर लिखें :5, 6, 9, 10, 13, 14	(60)
[प्रश्त 61 के लिए देखिए पृथ्ठ 4' (दीपा)] (शोध्रता से कार्य करें)		

(क) हाँ	🗆 (ख)नहीं 🗅	🗇 (ग])अनिश्चित 🗀
१६. यदि तुम्हें घर	से बहुत दूर पढ़ने या नौकरी व	हरने जाना पड़ तो क्या तुम्हारे
माता-पिता त्य	हें भेजना पसन्द करेंगे ?	
(क) हाँ	□ (ख) नहीं □	्र (ग) अनिश्चित 🖂
२०. क्या तुम नयी	चीजों/नवीन विधियों को एकद	म स्वाकार कर सकत हा !
(क) हो	🖂 (ख)नहा	🗆 (ग) अनिश्चित 🗖

(Asl.	(उत्तर-पत्र पर यथा स्थान-उचित उत्तर का संख्या सिख ।)	प्रश्न संस्था
		4
61.	सपावक : पत्रिका : : व्यापारी : (1) बाजार, (2) विज्ञापन, (3) दुकान, (4) समाचार कर	(61)
62.	आश्चर्य का अर्थ है, (1) निराला, (2) विसमय, (3) घबराहट, (4) अनुभव	(62)
63.	चन्द्रमा : : पृथ्वी : पृथ्वी, (1) सागर, (2) मंगलतारा, (3) सूर्थ (4) मछलियाँ	(63)
64.	इन पाँच शब्दों में से बेमेल शब्द की संख्या उत्तर पत्र पर निर्खें :	
	(1) मोफी, (2) गाजर (3) कक्कड़ी (4) मूली (5) धनियां	(64)
65.	सोना का अर्थ है, (1) कनक, (2) खाद, (3) घन, (4) माला	(65)
66	नीचे दिए संख्या कम के अनुसार आगे की एक संख्या उत्तर भन	
	में लिखें :- 9, 12, 14, 17, 19, 22	(66)
67	इन पाँच शब्दों में से बेमेल शब्द का अंक उत्तर पत्र पर लिखें :	
٠.,	(2) भूबा, (2) मरा, (3) व्यासा, (4) यशा, (5) हारा	(67)
ፍ ጽ	सवाभिव से मुरारी लम्बा है। किन्तु मुरारी से वीरेन्द्र नाटा है। और त्रिलोकी से मुरारी नाटा है,	
	तो सबसे लम्बा कौन है ? (2) सदाशिव, (2) मुरारी (3) वीरेन्द्र (4) त्रिलोकी	(68)
69	बृक्ष : लता : : फल : (1) फूल, (2) चम्पा, (3) मोतिया, (4) मातिसरी	(69)
70	नीचे दिए संख्या कम के अनुसार आगे की एक संख्या उत्तर पत्र	
	पर लिखें :- 8, 9, 12, 13, 16, 17	(70)
71	. नेता : जनता : : अधिकारी : (1) चुनाव (2) जावण, (3) कर्मचारी, (4) निर्णय	(71)
73	आरेखन कला में राम से गार्गी चतुर है। किन्तु उसकी अपेक्षा सीता चतुर है। अतः सबसे	
, 4	चतुर कौन है ? (1) गार्गी, (2) सीता, (3) राम,	(72)
73	इन पाँच ग्रब्टों में से बेमेल शब्द का अंक उत्तर पत्र पर लिखें :	
	(1) बोबर (2) कॅट. (3) कंगारू. (4) यक्षा, (>) बसा	(73)
74	्षित्र : सङ्ग :: सिनेमा : (1) लाता, (2) चलता, (3) हसता, (4) रोता	(74)
75	की दिल मंहण क्रम के अनुसार आगे की संहण एक उत्तर पत्र	
	पर जिल्हों · 29. 28. 26, 23, 19, 14	(75)
76	22 िचार में गर मे जीता जतर है कि ल कंगला से रसा निसन्देह चतुर है। और साता स रका वर्ष	
	है। तो सबसे चतुर कीन है ? (1) बहु, (2) कमला, (3) रमा, (4) सीला	(76)
77	○ > िन गंडण ह्या वे अवगार आगे की एक संस्था उत्तर पत्र	
	e = 7 8 10 13 17 22	(77)
78		(78)
79	परिचारी जाकी श्रेम कटने का अभिप्राय: है कि (1) मस वाल के पात वाल जानवार	64E
	होती है। (2) अधिक बलवान की बात सबको माननी पड़ती है। (3) लाठी देखकर भैस अधिक	
	ह्य देती ।	
8() बलियट : रोमियो : : संयोगिता : (1) स्वयंवर, (2) जयंबन्द	
	(3) पृथ्वाराज, (१) जनवर	
-	[प्रश्न 81] के लिए पन्ना उलटिए, देखिए पृष्ठ 5 (पाँचवां)] (शीन्नता से का	वे करे)

1981.		बोड		n e	बोइ	ओड	न	8
कुंबन मेर ।	2.	3.	डतम्क ⁽ 4,	5.	— मरी 6.	7, Superior	8. V Super	9. Excellent
Poor S a	V.dull विश्वक मंद	Dull मंद	Low খন জুম্বার	Average क्षीयत	Bright file	उपम्हा छ उसम	बादु त्तम	Miniale

	(उत्तर पत्र पर यथा स्थान उचित उत्तर की संख्या लिखें।)	प्रश्न संख्या
		1
81. अनेक वर्षी तक हव	ाई जहाज सफल न हुए, (1) वे बहुत भारी बनाये जाते थे।	
(2) उनके कल पुर्जे		(81)
32. नीचे दिए संख्या का	म के अनुसार आगे की एक संख्या उक्कर पत्र	
पर लिखें :	4, 6, 9, 11, 14, 16	(82)
१३ इन पीच शब्दों में से	ते बेमेल शब्द का बाँक उत्तर पत्र पर लिखें।	Okranik II. Saran Jaha (1981)
(1) forficers	(2) तोता, (3) बुलबुल, (4) कब्तर (5) बल्ल्	(83)
	म के अनुसार आगे की एक संख्या उत्तर पत	
)4. नाच ।दए तच्या क	8, 9, 11, 12, 14, 15	(84)
	े, बेमेल सब्द का अंक उत्तर पत्र पर लिखें:	e de la companya de l
) इ.स. पाच शब्दा लाउ रा\ ===== (?) पुरी, (3) प्रयाग, (4) द्वारिका, (5) दिल्ली,	(85)
(.)	पत्र : (1) कहानियां, (2) समाचार, (3) पत्रिका, (4) संवाद	(86)
16. बानकः सा तकः	(1) कहातथा, (2) समायार, (3) विकास (4) क्यांपार	(87)
37. आहुन का उल्टाह,	(1) धन, (2) बचत, (3) बनिया, (4) व्यापार,	(88)
8. कोट : पेन्ट :: कुरत	ा : (1) समाचार, (2) टोपी, (3) पजामा, (4) पगड़ी	
 बिस्तृत का बस्टा है 	, (1) विशाल, (2) कमरा (3) पतला (4) संकुचित	(89)
0. वेनसितः चान् ः व	जावी: (1) पुस्तक, (2) बोर्च, (3) ताव लेख	(90)
)1. पांच शब्दों से वेमेल	शब्दों का अंक उत्तर पत्र पर लिखें:	
(1) वहरा, (2) प्रभात, (3) घटा, (4) मितट, (5) क्षण	(91)
2, नीचे दिए संस्था क	म के अनुसार आगे की एक संख्या उत्तर पत्र	miw (i)
्र पर निर् षें :	2, 3, 5, 6 8 9	(42)
3. मोत : हिम :: स्थार	ष् : " (1) दिन, (४) खाइया, क्षान्ति (२) काना क्षान्त (१) धार क्षान	(93)
4. तीचे दिए संस्था क	व के बनुसार आगे की संख्या उत्तर पत्र	
	27, 26, 24, 21, 17, 12, 12,	
5, विश्वंय का अर्थ है,	(1) मोर, (2) वशी, (3) भहा, (4) निष्य	(95)
6. रमा की मुद्धि देवकी	ो से प्रसर है, पर सीता की बुद्धि सावित्री से हीत है, किन्तु देवकी	. 100 Teta 19
की बुद्धि सावित्री से	। उत्तम है, तो सबसे बुक्तिमान कौन है ?। 💛	
(1) वेचवी,	(2) तोता, (3) रमा, (4) सःवित्री 💮 🔠 💮	18 may (96)
7. इन पीच शब्दों में र	से बेमेल शब्द का अंक उत्तर पत्र पर निर्देश :	e intro
(1) हिमालब,	(2) केरल, (3) मेघालय, (4) भोपाल, (5) हरियाणा	
8. बाटा का उल्टा है,	(1) बारी, (2) सम्बा, (3) तगड़ा, (4) कठोर,	(98)
9. बलत का अर्थ है,	(1) बुरा, (2) विव, (3) कड़वा; (4) सरल	(99)
	बल्ली: (1) कुला, (2) पिल्ला, (3) दूध, (4) चूहा	(100)

(क) हाँ □ (ख) नहीं □ (ग्]) अनिश्चित □

१९. यदि तुम्हें घर से बहुत दूर पढ़ने या नौकरी करने जाना पढ़े तो क्या तुम्हारे

माता-पिता तुम्हें भेजना पसन्द करेंगे ?

(क) हाँ □ (ख) नहीं □ (ग) अनिश्चित □

२०. क्या तुम नयी चीजों/नवीन विधियों को एकदम स्वीकार कर सकते हो ?

(क) हां □ (ख) नहीं □ (ग) अनिश्चित □